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Engineers
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January 30, 2013

Project 121.06071.001

Ms. Kimberly N. Tisa, PCB Coordinator
U.S. Environmental Protection Agency, Region 1
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, Massachusetts 02109-3912

RE: Risk-Based Cleanup Plan, Revision 2
Polychlorinated Biphenyl (PCB) - Contaminated Building Materials
St. Anthony's Parish Property (Hyacinth Place)
2 Walker Street
Westbrook, Maine

Dear Ms. Tisa:

On behalf of Developer's Collaborative, Ransom Consulting, Inc. (Ransom) has prepared this second revision to the Risk-Based Cleanup Plan (the "Work Plan, Revision 2") summarizing proposed remedial actions to address polychlorinated biphenyl (PCB)-contaminated window and door caulking (and associated substrates) in the Parish Center building at the above-referenced location in Westbrook, Maine (the "Site"). This Work Plan, Revision 2 supersedes and is designed to replace the Risk Reduction Work Plan dated August 23, 2012 and the Revised Risk-Based Plan dated October 16, 2012, both of which were prepared by Ransom.

This Work Plan was developed based on the results of PCB assessment activities completed by Ransom at the Site in December 2011, March 2012, and June 2012. The PCB assessment activities were completed as part of an Environmental Site Assessment (ESA) conducted for the Maine Department of Environmental Protection (MEDEP) Brownfields program. The Site is currently vacant and proposed to be redeveloped for use as elderly housing.

BACKGROUND

The Site is currently developed with three structures, identified herein as the School Building, the Parish Center, and the Garage. The School Building is a 3-story brick building with daylight basement encompassing a footprint of approximately 14,076 square feet. The Parish Center is a 2-story brick building with daylight basement encompassing a footprint of approximately 11,282 square feet. The garage building is a 1 ½-story wood frame building.

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Ms. Kimberly Tisa
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The Site was originally developed as auxiliary buildings for the St. Hyacinth Church in the mid to late 1800s. The current School Building was constructed in 1893. In 1920, the Parish Center was constructed and utilized as a convent. These two structures have been deemed significant historic resources by State agencies and the site developer is anticipating State designation as historic buildings. Building locations and Site features are shown on the attached Figure 1. Photographs are included as Attachment A.

As detailed later in this Work Plan, Revision 2, PCB-contaminated building materials are limited to the Parish Center building.

SITE ASSESSMENT ACTIVITIES

Identification of PCB-Containing Caulk

In December 2011, Ransom completed a Hazardous Building Materials Inventory (HMI) at the Site under the MEDEP Brownfields program. The HMI included assessment of asbestos-containing materials, lead-based paint, and PCB-containing materials, as well as other hazardous and potentially hazardous building components/fixtures. As part of the HMI, five distinct caulking materials were identified in the Site buildings (three on the School Building and two on the Parish Center building). The caulking materials were sampled and submitted for PCB analysis. PCBs were not detected in the three samples collected from the School Building at concentrations above the laboratory reporting limit. PCBs were detected in one of the samples collected from the front door of the Parish Center building ("PC-24 PCB") at a concentration of 0.253 milligram per kilogram (mg/kg), which is below the U.S EPA practical cleanup guideline of 1 mg/kg. PCBs were detected in a second caulking material collected from the Parish Center building windows ("PC-23 PCB") at a concentration of 4,730 mg/kg. The PCBs detected in the samples were identified as Aroclor 1254. This material appeared to be associated with each window opening of the Parish Center building, with the exception of 9 vinyl-frame windows located in a renovated portion of the building (refer to the photo log provided as Attachment A).

The renovations in the area of the 9 vinyl-frame windows were performed at some time in the past when the property was owned by St. Anthony's Parish. Building permits were reviewed at the City of Westbrook during Ransom's research for previous Phase I ESA. However, no specific permit was identified in connection with window renovation. Therefore, Ransom cannot state precisely when the renovations took place, or where the wastes were disposed.

With the exception of the vinyl-frame windows, the windows of the Parish Center building are surrounded by brick and mortar on both sides and the top of each window opening. The bottom of the window openings consist of a concrete sill, or in the case of the ground-level basement windows, the concrete building foundation. The PCB-containing caulking material was generally observed along both sides and the top of each window. The caulking material was not observed along the bottom (concrete sill or foundation) portion of the window opening, with the exception of six older style wood-framed windows which are identified in the photo log provided as Attachment A.

Ms. Kimberly Tisa
U.S. Environmental Protection Agency

Based on our measurements, the estimated linear feet of caulk that will be removed are summarized below:

North Elevation	<u>Linear Ft. of Caulk</u>
Windows	247
Doors	0
South Elevation	
Windows	327
Doors	0
East Elevation	
Windows	484
Doors	0
West Elevation	
Windows	169
Doors	53
Total Linear Feet of Caulk:	1280

Caulk sample locations and detected PCB concentrations at the Parish Center building are shown on Figures 1 and 2. A summary of PCB concentrations detected in the caulking material samples is provided in Table 1.

Initial PCB Exposure Assessment

To characterize the extent of potential impacts from PCBs, Ransom collected additional building material samples and surface soil samples from the vicinity of the Parish Center building as part of a Phase II ESA in March 2012. Ransom collected samples of brick and mortar or concrete from the exterior of the building surrounding window and door frames where caulking was observed. Building material samples PCB-201 and PCB-202 (Figure 2) were collected adjacent to caulking which tested positive for PCBs. An additional sample, PCB-203, was collected from the brick and mortar surrounding a previously untested window, to further define the extent of PCB impacts to building materials.

Porous building material samples (i.e., brick and mortar) were initially collected at lateral distances of 1 and 2 inches from the source material (caulk around window or door frames). Building material samples were collected by drilling holes into the brick/mortar or concrete on the exterior of the building. The window frames were observed to be recessed approximately 2 inches into the window openings. To assess lateral PCB migration into the building material substrate, the first 1 inch of material generated during the drilling from the face of the building into the wall was discarded, and a sample of the material from a depth commensurate with the caulk within the window opening was collected and placed in

laboratory-supplied sample containers. Refer to Figure 3 for an illustration of the sample collection locations relative to the caulking material and window opening. Building material samples were submitted to Analytics Environmental Laboratory, LLC (Analytics) of Portsmouth, New Hampshire for PCB analysis by U.S. EPA Method 8082. The samples were prepared for analysis using the Soxhlet extraction procedure (U.S. EPA Method 3540C).

To evaluate impacts to surface soils from PCB-containing building materials, soil samples SS-201 through SS-203 were collected from corresponding locations adjacent to the building material samples (Figure 2). The soil samples were collected from the top 2 inches of soil, within approximately 1 foot of the suspect PCB-contaminated building materials. The soil samples were submitted to Analytics and analyzed for PCBs by U.S. EPA Method 8082. The samples were prepared for analysis utilizing the standard Soxhlet extraction procedure, U.S. EPA Method 3540C.

As shown in Table 2 and on Figure 2, PCBs were detected in the brick and mortar samples at concentrations ranging from 0.215 to 5.78 mg/kg. The detected PCBs were identified as Aroclor 1254. PCBs were not detected at concentrations above the laboratory reporting limit in the concrete samples collected from location PCB-202. The concentrations of PCBs detected in the substrate materials at locations PCB-201 and PCB-203 declined with distance from the source material (i.e. samples collected at 1 inch from the source material exhibited higher concentrations of PCBs than samples collected 2 inches from the source material). PCB concentrations in the substrate at location PCB-201 were below 1 mg/kg in the sample collected 2 inches from the source. However, PCB concentrations remained above 1 mg/kg in the 2-inch substrate sample collected at PCB-203. A copy of the laboratory chemical analysis data report is included as Attachment B.

PCB concentrations in surface soil samples correspond with the presence of PCBs in the building substrate samples. As shown in Table 3 and on Figure 2, PCBs were detected in soil samples SS201 and SS203 at total concentrations 2.26 and 0.283 mg/kg, respectively. The PCBs detected in the samples were identified as Aroclor 1254. A copy of the laboratory chemical analysis data report is included as Attachment B. Upon receipt of the analytical data, Ransom reviewed the laboratory report for data quality and completeness. The "laboratory report checklist" is included with the laboratory report in Attachment B. No exceptions were identified in the data that are expected to impact the data quality.

Additional PCB Exposure Characterization

Based on the results of the Phase II ESA, Ransom determined that additional investigation was warranted to further define the lateral extent of PCB migration into building material substrates and to evaluate indoor air conditions with respect to PCBs. In June 2012, Ransom collected additional brick and mortar samples from location PCB-203, at lateral distances of 3 and 4 inches from the caulking. These samples were collected at a depth within the wall that was representative of the caulk within the adjacent window opening, as described above.

Building material samples were also collected at locations PCB-201 and PCB-203 from the surface of the exterior window opening at locations perpendicular to the window pane, and parallel to the window pane (refer to Figure 3 and the photo log provided as Attachment A). At these locations, brick and mortar from the top ½-inch of the exterior building wall was collected to evaluate PCB concentrations with which the general public or future residents may have direct contact.

As previously discussed, PCBs were detected in a sample of the caulking collected from around the front entrance to the Parish Center building (PC-24 PCB) at a concentration of 0.253 mg/kg. To further characterize the caulking material associated with the building doors, a sample of caulking material was collected from a rear door location (“Rear Door Caulk”, Figure 2) of the Parish Center building and submitted to Analytics for PCB analysis by U.S. EPA Method 8082 and using the standard Soxhlet extraction procedure to prepare the sample.

To assess exposure risks in the Parish Center building, Ransom collected indoor air samples from locations in the basement and first floor of the building (“Air Basement” and “Air First Floor”, respectively). The samples were collected using personal air sampling pumps equipped with low-volume polyurethane foam (PUF) cartridges. Indoor air was pumped through the PUF cartridges for a period of approximately 4 hours at a rate of approximately 4 liters per minute. The cartridges were then sealed and submitted to Alpha Analytical, Inc. (Alpha) of Mansfield, Massachusetts for analysis of PCB homologs by U.S. EPA Method 105,680/8270C with Selective Ion Monitoring (SIM).

Upon receipt, the laboratory analytical data was reviewed for quality and completeness. A copy of the “laboratory report checklist” is included in Attachment B. The laboratory report noted that the air samples collected from the Parish Center building arrived at the laboratory above the required temperature range. Because PCBs are persistent in the environment, this condition is not expected to have significantly impacted the data quality. However, if the data quality was impacted, sample results for the indoor air samples at the Parish Center building may be biased low.

Findings from the June 2012 assessment activities indicated the following:

1. At sample location PCB-203, PCBs (Aroclor 1254) were detected at a concentration of 1.46 mg/kg in the substrate sample collected at a lateral distance of 3 inches from the caulking. PCBs (Aroclor 1254) were detected at a concentration of 0.42 mg/kg in the substrate sample collected at a lateral distance of 4 inches from the caulking at this location (refer to Table 2);
2. PCBs (Aroclor 1254) were detected in the four surface building material samples collected parallel and perpendicular to the window pane at locations PCB-201 and PCB-203 at concentrations ranging from 1.07 to 3.84 mg/kg (refer to Table 2);
3. PCBs (Aroclor 1254) were detected in the caulking sample collected from the rear door location of the Parish Center building at a concentration of 4,820 mg/kg (refer to Table 1); and

4. As shown in Table 4 and on Figure 2, PCB homologs were not detected in the indoor air samples at concentrations above the laboratory reporting limits.

SITE ASSESSMENT CONCLUSIONS

Based on the findings of the site assessment activities, Ransom makes the following conclusions regarding PCB-contaminated building materials associated with the Parish Center building:

1. Caulking materials on the exterior portions of windows and doors associated with the Parish Center building contain PCBs at concentrations in excess of 50 mg/kg. This constitutes an "Unauthorized Use" of PCBs, and these materials are required to be removed and disposed of as PCB Bulk Product Waste in accordance with 40 CFR 761.62;
2. PCBs have leached from the caulking material (source material) into the brick and mortar (substrate materials) surrounding window and door openings of the Parish Center building. Concentrations of PCBs in excess of 1 mg/kg were detected in substrate materials at distances up to 3 inches laterally from the source material. PCB concentrations in substrate material at a lateral distance of 4 inches from the source material were less than 1 mg/kg. The PCB-contaminated substrate (i.e., media contaminated with PCBs at concentrations greater than 1 mg/kg) is considered PCB Remediation Waste as defined by 40 CFR 761.3;
3. PCBs were detected on the exposed surface of the substrate material (exterior building wall) at concentrations exceeding 1 mg/kg. These concentrations may represent an exposure risk via direct contact with the exposed substrate;
4. Surface soil samples collected in the vicinity of the affected doors/windows did not exhibit PCB concentrations above the MEDEP risk-based Remedial Action Guideline (RAG) of 2.4 mg/kg for residential scenarios. Nevertheless, soils containing greater than 1 mg/kg of PCBs are considered PCB Remediation Waste, and will require proper handling and disposal in accordance with 40 CFR §761.61. Additional lateral and vertical characterization is necessary to define the extent of PCB impacts to soils associated with the Parish Center building; and
5. PCBs in building materials associated with the Parish Center building have not impacted indoor air.

EVALUATION OF PCB CLEANUP ALTERNATIVES

Based on the findings of the site assessment activities conducted to date, Ransom conducted the required evaluation of PCB Cleanup Alternatives as presented below. The cleanup alternatives discussed below address the remediation of the PCB-contaminated caulk and building substrate materials. The cleanup alternatives discussed below do not address the identified soil contamination. As previously mentioned,

Ms. Kimberly Tisa
U.S. Environmental Protection Agency

additional characterization is required to define the extent of PCB-contaminated soils surrounding the Parish Center building. Once the additional characterization has been completed, a supplemental cleanup plan will be submitted, which will outline the results of the additional soil characterization and proposed remediation method.

Available Cleanup Alternatives

Ransom evaluated three cleanup alternatives each of which includes the removal of PCB-contaminated caulking from affected window and door surfaces:

1. Encapsulation of PCB-contaminated brick and mortar (Encapsulation);
2. Scarification of the exterior 1 inch of PCB-contaminated brick and mortar (Scarification) and off-site disposal as PCB Remediation Waste; and
3. Removal of at least 4 inches of PCB-contaminated brick and mortar (Removal) and off-site disposal as PCB Remediation Waste.

Ransom is unaware of any other off-site or *in-situ* remedial technologies that have proven their effectiveness or have been approved by the U.S. EPA to destroy PCBs in substrate materials without destroying the structure.

Alternatives Analysis

Ransom evaluated the benefits and limitations of each alternative.

The benefits of the Encapsulation strategy include:

1. Expeditionary completion. Installation of the acrylic coating(s) can be completed within 2 to 3 weeks and would not require removal and replacement of structural elements;
2. Preservation of the Parish Center building. There would be no impact to the structural integrity of the building through this alternative;
3. Lower cost. The costs associated with the encapsulation of the affected substrate materials are estimated at \$192,000; and
4. Effective solution. The Encapsulation strategy provides an effective and long-term means of minimizing risks of exposure to PCB-contaminated building materials at the Parish Center building.

The limitations of the Encapsulation strategy include:

1. Perceived impacts to the aesthetics of the Parish Center building. The redevelopment of the property must be reviewed and approved by the State Historic Preservation Office (SHPO). SHPO has expressed concern on the aesthetic impacts that encapsulation may have on the Parish Center building;
2. Non-permanence. Long-term maintenance of the acrylic coating(s) would be necessary to ensure that remaining PCB-contaminated substrate materials are not exposed;
3. Future costs. Because maintenance of the encapsulated areas would be needed, and long-term air monitoring/confirmation sampling would be required, there would be ongoing maintenance and monitoring costs; and
4. Notification requirements. If PCBs are left in the building materials, certain notification requirements, such as an environmental covenant attached to the property deed, and notification to future tenants, will be required.

The benefits of the Scarification strategy include:

1. Permanent removal of accessible PCB Remediation Waste; and
2. Simplified long-term maintenance. There would be no need for a long-term maintenance plan to ensure the acrylic coating(s) remain intact or for the periodic collection of indoor air/confirmation samples.

The limitations of the Scarification strategy include:

1. Scarification would only remove 1 inch of material from the exterior of the contaminated brick and mortar substrate material. Under this approach PCB-contaminated substrate (i.e., PCBs at concentrations above 1 mg/kg) would be present in the remaining brick and mortar following the scarification process;
2. Scarification would drastically alter the aesthetics of the Parish Center building. The Parish Center building has been deemed a significant historical structure, and abatement will need to obtain Maine SHPO approval. These options will likely entail physical modifications to the visual exterior that may not be approved by the state and federal review boards;
3. The Scarification alternative would generate PCB-contaminated dust which would require containment and mitigation measures to prevent the dust from migrating to other areas of the property. With any removal action of this type, dust containment is critical in preventing unnecessary exposure(s) to PCB-contaminated dust both in the short term and the long term;

4. The volume of PCB Remediation Waste generated under the Scarification alternative will be substantial (See Table 5 for details). For the Scarification alternative, Ransom estimates that approximately 2 tons of PCB Remediation Waste would be generated; and
5. High cost for implementation and disposal of PCB-contaminated demolition debris.

The benefits of the Removal strategy include:

1. Permanent removal of PCB Remediation Waste;
2. Any alteration of the building aesthetics caused by brick and mortar removal could presumably be repaired to the satisfaction of the Maine SHPO; and
3. Simplified long-term maintenance. There would be no need for a long-term maintenance plan to ensure the acrylic coating(s) remain intact or for the periodic collection of indoor air samples.

The limitations of the Removal strategy include:

1. The removal of potentially PCB-contaminated brick and mortar surrounding window and door openings may pose a threat to the structural integrity of the Parish Center building. To remove this material, extraordinary efforts may be necessary to ensure the structural integrity of the building during the course of removal activities. Removal of 4 inches of brick and mortar from around windows and doors may impact some load-bearing members. Since there may be significant structural impediments to this remediation approach, a structural engineer would need to complete a study to further evaluate the feasibility of this approach;
2. The Removal alternative would generate PCB-contaminated dust which would require containment and mitigation measures to prevent the dust from migrating to other areas of the property. With any removal action of this type, dust containment is critical in preventing unnecessary exposure(s) to PCB-contaminated dust both in the short term and the long term;
3. The volume of PCB Remediation Waste generated under the Removal alternative will be substantial (See Table 6 for details). For the Removal alternative, Ransom estimates that approximately 36 tons of PCB Remediation Waste would be generated; and
4. High cost for implementation and disposal of PCB-contaminated demolition debris.

Cost Comparison

For each alternative, Ransom estimated implementation costs. Because a structural engineering analysis was not performed to evaluate the technical feasibility of removal of PCB-contaminated brick and mortar from the Parish Center building, Ransom cannot estimate the total costs associated with the structural improvements or building protection methods that would be necessary under this alternative. However, waste disposal costs were estimated for each alternative based on the quantity of waste anticipated.

A summary of the estimated costs and construction time for the site preparation activities (common to all alternatives) and those associated with each of the remediation alternatives is presented below. Details for each of the alternatives are presented in Table 7.

Remediation Alternative		Construction Time (Days)	Estimated Total Cost
1	Encapsulation of PCB-contaminated brick and mortar (Encapsulation)	15	\$192,000
2	Scarification of the top 1 inch of potentially PCB-contaminated brick and mortar (Scarification)	30	\$195,000
3	Removal of the first course of potentially PCB-contaminated brick and mortar (Removal)	30	\$229,000

PROPOSED RISK REDUCTION PLAN

The objective of the proposed work is to eliminate the potential exposure risks associated with the PCB-containing window and door caulk and residual PCB-contaminated substrate materials on the exterior of the building. To accomplish this objective, the prospective property purchaser proposes to replace the existing windows and doors with new, energy efficient components that visually match the historic nature of the building. PCB-contaminated caulking presently associated with the windows and doors will be removed and disposed of as PCB Bulk Product Waste. PCB-contaminated substrate materials, including brick, mortar, and window frames, will also be disposed of in the same waste stream as PCB Bulk Product Waste. The PCB Bulk Product Waste will be disposed of in a hazardous waste landfill, as outlined in Table 8.

Based on the analysis of cleanup alternatives, the encapsulation alternative appears to be the most cost-effective approach to reducing exposure to PCB-contaminated brick and mortar substrate materials. However, the encapsulation alternative has been determined to be unacceptable to the Maine SHPO review board, due to the perceived alterations it would cause to the physical appearance and aesthetics of the Parish Center building. Therefore, the more costly but equally effective Removal alternative has been chosen to eliminate the exposure risk associated with PCB-contaminated brick and mortar substrate.

The proposed remediation activities are described below.

PCB Contamination Abatement

Removal and replacement of the PCB-contaminated caulking from the exterior windows and doors will be performed utilizing the following procedure:

1. Abatement Preparation: The area beneath each window/door will be cleared of obstructions and a temporary containment will be erected in the work area:
 - a. Work Area Containment: A double layer of plastic sheeting will be placed over the window/door opening and duct-taped to the brick exterior of the building. There will be enough "slack" in the plastic sheeting to allow abatement workers access to the PCB-contaminated caulking. A double layer of plastic sheeting will be placed on the ground surface beneath the window. Polyethylene sheeting for walls in the regulated area shall be a minimum of 4-mils. For floors and all other uses, sheeting of at least 6-mils shall be used in widths selected to minimize the frequency of joints;
 - b. Interior Window/Door Seal: A double layer of plastic sheeting will be placed over the interior of the window/door opening to prevent dislodged PCB-contaminated caulking, porous building material or dust from entering the window/door and duct-taped in place to prevent cross-contamination via dust settling on the horizontal surface during abatement work;
 - c. The containment area will be provided with negative pressure and HEPA filtration system;
 - d. No chipping hammers, grinding or wire wheels will be used to remove PCB Bulk Product Waste or PCB Remediation Waste materials unless performed inside containment with HEPA attachments; and
 - e. The work area will be demarcated with caution tape and signage at a distance to keep unauthorized workers and visitors out of the work area. A tool drop zone and personal decontamination facility will be established contiguous to the work zone. A clean zone will be established along with waste stream pathways.
2. Caulking Removal:
 - a. Putty knives and other hand tools will be used to remove the PCB-contaminated caulking from the window/door opening. Care will be taken to minimize damage to the brick surround of the window/door. Remediation waste will be placed in a plastic trash bag for temporary storage during the removal; and
 - b. Removal of residual caulking will be performed using a Simple Green solution and/or a citrus degreaser (Aramco Aerosol Citrus Degreaser) and a scrub pad. Remediation waste will be placed in a plastic trash bag. Simple Green and/or Aramco Aerosol Citrus Degreaser will be used in lieu of hexane due to flammability and vapor concerns.

3. Brick Removal:

- a. Brick and mortar that are in contact with PCB-containing caulk or have been contaminated with PCB-containing caulk at concentrations greater than 1 mg/kg will be removed. Based on the sampling data, a minimum of 4 inches of brick and mortar material will be removed from around the window openings utilizing mechanical means;
- b. Figure 4 depicts typical windows indicating the bricks and mortar planned for removal. During the brick removal activities, care will be taken to minimize dust production and damage to adjacent brick. A temporary containment structure will be constructed around each window. The brick and mortar removal will be accomplished from the exterior of the building. As previously discussed, the PCB-containing caulking material was generally observed on the sides and top of the Parish Center building windows and doors. Therefore, brick and mortar removal is proposed for these areas of the window/door openings. In the case of the six windows where the caulking material was also identified along the bottom of the window openings (refer to Photo Log, Appendix A), the concrete sill beneath these windows will also be removed; and
- c. After removal, the remaining brick and sill surfaces will be cleaned utilizing a HEPA vacuum and triple rinsed utilizing Simple Green and/or Aramsco Degreaser.

Waste Management

Due to the challenges in separating PCB Bulk Product Waste from substrate materials, this Work Plan proposes to dispose of all substrate materials (window panes, wooden and aluminum window frames, brick/mortar surrounds, and concrete sills) as PCB Bulk Product waste in accordance with the U.S. EPA's October 24, 2012 "PCB Bulk Product Waste Reinterpretation" memorandum..

Disposal of wastes will be in accordance with applicable state and federal regulations and in accordance with 40 CFR 761.61 and 761.62. The waste will be shipped by a licensed transporter and sent to licensed facilities that will receive and dispose PCB Bulk Product Waste, in accordance with U.S. EPA regulations. The PCB Bulk Product Waste will be shipped off-site under a Uniform Hazardous Waste Manifest.

As previously discussed, additional characterization will be required to define the extent of PCB impacts to soils surrounding the Parish Center building. Once the soils have been properly characterized, soils contaminated with greater than 1 mg/kg of PCBs will be removed and disposed of as PCB Remediation Waste. Following the additional soil characterization activities, a supplemental plan will be submitted to the U.S. EPA which will describe the proposed remediation plan for PCB-contaminated soils.

QUALITY ASSURANCE/QUALITY CONTROL AND CONFIRMATION SAMPLING

Once the initial course of brick and mortar (at least 4 inches) has been removed from the window/door surrounds, a series of confirmation samples will be collected from the remaining brick and mortar surrounding the window/door openings. These samples will be collected to ensure that remaining substrate materials do not contain PCBs at concentrations greater than 1 mg/kg. The Parish Center building includes a total of 82 windows and 3 door openings which will require remediation. Therefore, Ransom proposes to collect 30 confirmation samples of the remaining brick and mortar substrate (representing approximately 35% of the window/door openings). Excluding the front door, which does not require remediation, one confirmation sample will be collected from each of the doorway openings on the western side of the Parish Center building. The remaining confirmation samples will be collected from 27 of the window openings.

The substrate confirmation samples will be surficial (0 to ½ inch), brick and mortar collected using methods described in Region I, EPA-New England, Standard Operating Procedure for Sampling Porous Surfaces for PCBs (May 5, 2011). Sample collection tools will be decontaminated between samples by using Simple Green and/or Aramsco Aerosol Citrus Degreaser and clean water rinse between each sample. The confirmation samples will be placed in a laboratory-supplied container and submitted to a certified laboratory for PCB analysis by U.S. EPA Method 8082; the samples will be prepared for analysis using U.S. EPA Method 3540C, Soxhlet extraction. As a quality control (QC) measure, two blind duplicate samples will also be collected.

The confirmation samples will be placed on an expedited turnaround timeframe in order to support the construction schedule and confirm that the proposed remediation strategy is effective. If any confirmation sample should indicate a residual PCB concentration of greater than 1 mg/kg, the abatement contractor will be instructed to remove additional brick and mortar around the entire window/door opening. Once the additional brick/mortar has been removed, an additional confirmation sample will be collected to confirm that the remediation goal has been achieved.

In the event that certain courses of brick and mortar cannot be removed without compromising the structural integrity of the building, additional confirmation samples will be collected in these areas to ensure that remaining substrate materials do not contain PCBs at concentrations exceeding 1 mg/kg.

BRICK AND MORTAR REPAIR AND REPLACEMENT

To satisfy the historic preservation requirements of this project, the brick and mortar surrounding each window/door opening will be repaired to restore the window/door openings to their original dimensions. Once the confirmation sampling has indicated that the remedial objective has been achieved, each of the removed courses of brick and mortar will be replaced with new brick and mortar to match the physical appearance of the original building.

Ms. Kimberly Tisa
U.S. Environmental Protection Agency

PROPOSED SCHEDULE

The developer has obtained funding and retained an abatement contractor for the PCB remediation activities. Following U.S. EPA review and approval of this Work Plan, Ransom anticipates the abatement activities can be completed within 2 months. PCB abatement activities will be completed prior to occupancy of the Site building. Following the abatement activities, a report describing the abatement activities and confirmation sample results will be submitted to the U.S. EPA within approximately 4 weeks.

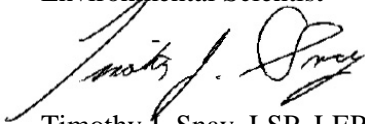
Should you have any questions regarding this revised Work Plan, please do not hesitate to call.

Sincerely,

RANSOM CONSULTING, INC.



Eriksen P. Phenix, C.G.
Environmental Scientist



Timothy J. Snay, LSP, LEP
Vice President, Senior Scientist



Stephen J. Dyer, P.E.
Senior Project Manager

EPP/SJD/TJS:jsh

cc: Mr. Greg Payne, Avesta Housing, 307 Cumberland Ave., Portland, Maine

TABLE 1: SUMMARY OF PCB CONCENTRATIONS IN CAULKING

Risk-Based Cleanup Plan, Revision 2

Polychlorinated Biphenyl (PCB) - Contaminated Building Materials

St. Anthony's Parish Property (Hyacinth Place)

2 Walker Street

Westbrook, Maine

Sample I.D.	Parish Center Building			School Building		
	PC-23 PCB	PC-24 PCB	Rear Door Caulk	S-26 PCB	S-27 PCB	S-28 PCB
Sample Material	Window Caulk	Front Door Caulk	Rear Door Caulk	Window Caulk	Window Caulk	Front Door Caulk
Sample Date	12/2/2011	12/2/2011	6/14/2012	12/2/2011	12/2/2011	12/2/2011
PCBs	Concentrations in milligrams per kilogram (mg/kg)					
Aroclor 1254	4,730	0.253	4,820	BRL(0.924)	BRL(0.396)	BRL(1.290)
All Other Aroclors	BRL(268)	BRL(0.165)	BRL(0.033)	BRL(0.924)	BRL(0.396)	BRL(1.290)

NOTES:

1. PCBs = Polychlorinated Biphenyls.
2. BRL = below laboratory reporting limit shown in parentheses.
3. Values in bold exceed the U.S. EPA Practical Cleanup Guideline of 1 mg/kg as provided by 40 CFR 761.
4. Samples collected by Ransom Consulting, Inc. on the dates indicated.
5. Samples analyzed by Analytics Environmental Laboratory LLC, using U.S. EPA Method 8082 and standard Soxhlet extraction procedures.

TABLE 2: SUMMARY OF PCB CONCENTRATIONS IN BRICK/MORTAR AND CONCRETE

Risk-Based Cleanup Plan, Revision 2
Polychlorinated Biphenyl (PCB) - Contaminated Building Materials
St. Anthony's Parish Property (Hyacinth Place)
2 Walker Street
Westbrook, Maine

Sample Location	PCB-201	PCB-201	PCB-201 Perpendicular	PCB-201 Parallel	PCB-202	PCB-202	PCB-203	PCB-20DUP (duplicate of PCB-203)	PCB-203	PCB-203	PCB-203	PCB-203 Perpendicular	PCB-203 Parallel
Distance from Source (inches)	1	2	1 (surface)	1 (surface)	1	2	1	1	2	3	4	1 (surface)	1 (surface)
Sample Date	3/8/2012	3/8/2012	6/14/2012	6/14/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012	6/14/2012	6/14/2012	6/14/2012	6/14/2012
PCBs	Concentrations in milligrams per kilogram (mg/kg)												
Aroclor 1254	1.79	0.215	3.84	1.65	BRL(0.033)	BRL(0.122)	5.78	6.34	1.33	1.46	0.42	2.86	1.07
All Other Aroclors	BRL(0.158)	BRL(0.033)	BRL(0.330)	BRL(0.066)	BRL(0.033)	BRL(0.122)	BRL(0.330)	BRL(0.330)	BRL(0.063)	BRL(0.066)	BRL(0.033)	BRL(0.165)	BRL(0.063)

- NOTES:
- PCBs = Polychlorinated Biphenyls.
 - BRL = below laboratory reporting limit shown in parentheses.
 - Values in **bold** exceed the U.S. EPA Practical Cleanup Guideline of 1 mg/kg as provided by 40 CFR 761.
 - Samples collected by Ransom Consulting, Inc. on the dates indicated.
 - Samples analyzed by Analytics Environmental Laboratory LLC, using U.S. EPA Method 8082 and standard Soxhlet extraction procedures.

TABLE 3: SUMMARY OF PCB CONCENTRATIONS IN SOIL

Risk-Based Cleanup Plan, Revision 2

Polychlorinated Biphenyl (PCB) - Contaminated Building Materials

St. Anthony's Parish Property (Hyacinth Place)

2 Walker Street

Westbrook, Maine

Sample Location	SS-201	SS-202	SS-203	Maine Department of Environmental Protection Remedial Action Guidelines			
Sample Depth (ft bgs)	0-0.5	0-0.5	0-0.5	Residential	Park User	Outdoor Commercial Worker	Excavation Construction Worker
Date Collected	3/9/2012	3/9/2012	3/9/2012				
PCBs	Concentration in milligrams per kilogram (mg/kg)						
Arochlor 1254	2.26	BRL(0.036)	0.283	2.4	4.1	12	6.5
All Other Aroclors	BRL(0.096)	BRL(0.036)	BRL(0.043)				

TABLE 4: SUMMARY OF PCB CONCENTRATIONS IN INDOOR AIR

Risk-Based Cleanup Plan, Revision

Polychlorinated Biphenyl (PCB) - Contaminated Building Materials

St. Anthony's Parish Property (Hyacinth Place)

2 Walker Street

Westbrook, Maine

Sample I.D.	Air First Floor	Air Basement
Sample Date	6/14/2012	6/14/2012
PCB Homologs	Concentrations in nanograms per cubic meter (ng/m ³)	
Monochlorobiphenyls	BRL(10.26)	BRL(10.36)
Dichlorobiphenyls	BRL(10.26)	BRL(10.36)
Trichlorobiphenyls	BRL(10.26)	BRL(10.36)
Pentachlorobiphenyls	BRL(10.26)	BRL(10.36)
Hexachlorobiphenyls	BRL(10.26)	BRL(10.36)
Heptachlorobiphenyls	BRL(10.26)	BRL(10.36)
Octachlorobiphenyls	BRL(10.26)	BRL(10.36)
Nonachlorobiphenyls	BRL(10.26)	BRL(10.36)
Decachlorobiphenyl	BRL(10.26)	BRL(10.36)
Total Homologs	BRL(10.26)	BRL(10.36)

NOTES:

1. PCBs = Polychlorinated Biphenyls.
2. BRL = below laboratory reporting limit shown in parentheses.

TABLE 5 ESTIMATION OF BRICK AND MORTAR VOLUMES TO BE REMOVED - SCARIFICATION ALTERNATIVE

Risk-Based Cleanup Plan, Revision 2

Polychlorinated Biphenyl (PCB) - Contaminated Building Materials

St. Anthony's Parish Property (Hyacinth Place)

2 Walker Street

Westbrook, Maine

	Dimensions		Opening	New Dimensions		New Opening	to be removed	Depth (in.)	Volume	Volume	# of	Total	
	height (in.)	width (in.)	(square in.)	height (in.)	width (in.)	(square in.)	(square in.)		(Cubic in.)	(Cubic ft)	Openings	(Cubic ft)	
Windows													
A	48	36	1,728	56	44	2,464	736	1	736	0.43	82	34.93	
Doorways													
A	84	36	3,024	92	44	4,048	1,024	1	1,024	0.59	3	1.78	
B	84	72	6,048	96	80	7,680	1,632	1	1,632	0.94		0.00	
												36.70	cubic feet
												3,670	pounds
												2	tons
									50% Waste Expansion Factor			1	tons
											TOTAL:	3	tons

Notes:

1. Dimensions and areas were estimated based on field measurements made by Ransom Consulting, Inc. on June 9, 2010.
2. The density of brick is assumed to be 100 lbs per cubic foot.

TABLE 6 ESTIMATION OF BRICK AND MORTAR VOLUMES TO BE REMOVED - REMOVAL ALTERNATIVE

Risk-Based Cleanup Plan, Revision 2

Polychlorinated Biphenyl (PCB) - Contaminated Building Materials

St. Anthony's Parish Property (Hyacinth Place)

2 Walker Street

Westbrook, Maine

	Dimensions		Opening	New Demensions		New Opening	Surface Area	Depth (in.)	Volume	Volume	# of	Total	
							to be removed					Volume	
Windows	height (in.)	width (in.)	(square in.)	height (in.)	width (in.)	(square in.)	(square in.)		(Cubic in.)	(Cubic ft)	Openings	(Cubic ft)	
A	48	36	1,728	60	48	2,880	1,152	8	9,216	5.33	82	437.33	
Doorways													
A	84	36	3,024	96	48	4,608	1,584	8	12,672	7.33	3	22.00	
B	84	72	6,048	96	84	8,064	2,016	8	16,128	9.33	0	0.00	
												459.33	cubic feet
												45,933	pounds
												23	tons
									50% Waste Expansion Factor			11	tons
											TOTAL:	34	tons

Notes:

1. Dimensions and areas were estimated based on field measurements made by Ransom Consulting, Inc. on June 9, 2010.
2. The density of brick is assumed to be 100 lbs per cubic foot.

TABLE 7 COST COMPARISON

Risk-Based Cleanup Plan, Revision 2

Polychlorinated Biphenyl (PCB) - Contaminated Building Materials

St. Anthony's Parish Property (Hyacinth Place)

2 Walker Street

Westbrook, Maine

		Timeframe (days)	Labor	Materials & Expenses	Transportation and Disposal	Ransom Labor & Expenses	Laboratory	Total
Option:								
Alternative #1: Encapsulation of PCB-contaminated brick and mortar (Encapsulation)								
	Encapsulation of sills, casings and overhangs	15	\$ 65,000	\$ 5,000	\$ 20,000	\$ 6,000	\$ -	\$ 96,000
	Post-encapsulation wipe sampling (30 samples)	1	\$ -	\$ -		\$ 3,000	\$ 3,000	\$ 6,000
	Long term monitoring - (30 yrs period)	30	\$ -	\$ -		\$ 60,000	\$ 30,000	\$ 90,000
SUBTOTAL:								\$ 192,000
Alternative #2: Scarification of the top 1 inch of PCB-contaminated brick and mortar (Scarification)								
	Structural Engineer site visit and evaluation	2	\$ 4,000			\$ 1,000	\$ -	\$ 5,000
	Scarification of 1 inch of concrete or brick	30	\$ 120,000	\$ 20,000	\$ 26,000	\$ 12,000	\$ -	\$ 178,000
	Post-scarification bulk sampling of walls (30 samples)	3	\$ -	\$ -		\$ 6,000	\$ 6,000	\$ 12,000
SUBTOTAL:								\$ 195,000
Alternative #3: Removal of the 4 inches of PCB-contaminated brick and mortar (Removal)								
	Structural Engineer site visit and evaluation	2	\$ 4,000			\$ 1,000	\$ -	\$ 5,000
	Removal of at least 4 inches of concrete or brick	30	\$ 120,000	\$ 20,000	\$ 60,000	\$ 12,000	\$ -	\$ 212,000
	Post-removal bulk sampling of walls (30 samples)	3	\$ -	\$ -		\$ 6,000	\$ 6,000	\$ 12,000
SUBTOTAL:								\$ 229,000

TABLE 8 PROPOSED WASTE DISPOSAL PLAN

Risk-Based Cleanup Plan, Revision 2

Polychlorinated Biphenyl (PCB) - Contaminated Building Materials

St. Anthony's Parish Property (Hyacinth Place)

2 Walker Street

Westbrook, Maine

Waste Type	Disposal Facility ⁽¹⁾
PCB-contaminated Caulk	Hazardous Waste Landfill
Window Panes	Hazardous Waste Landfill
Wooden Window Frames	Hazardous Waste Landfill
Aluminum Storm Window Frames	Hazardous Waste Landfill
Brick/mortar	Hazardous Waste Landfill
Concrete Window Sills	Hazardous Waste Landfill

⁽¹⁾ The disposal facility will be chosen by the remediation contractor, and will be identified in the work plan presented by the remediation contractor.



Legend

- Site Boundary
- Material Sample
- Indoor Air
- Soil Sample

Notes

1. Site Plan based on 2006 Orthophotography

2. Some features are approximate in location and scale

3. This plan has been prepared for the Maine Department of Environmental Protection. All other uses are not authorized unless written permission is obtained from Ransom Environmental Consultants, Inc.

Scale and Orientation

0 15 30
1 inch = 30 feet

Prepared For

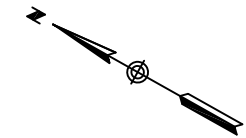
Developer's Collaborative
17 Chestnut Street
Portland, Maine

Site Address

Hyacinth Place
2 Walker Street
Westbrook, Maine

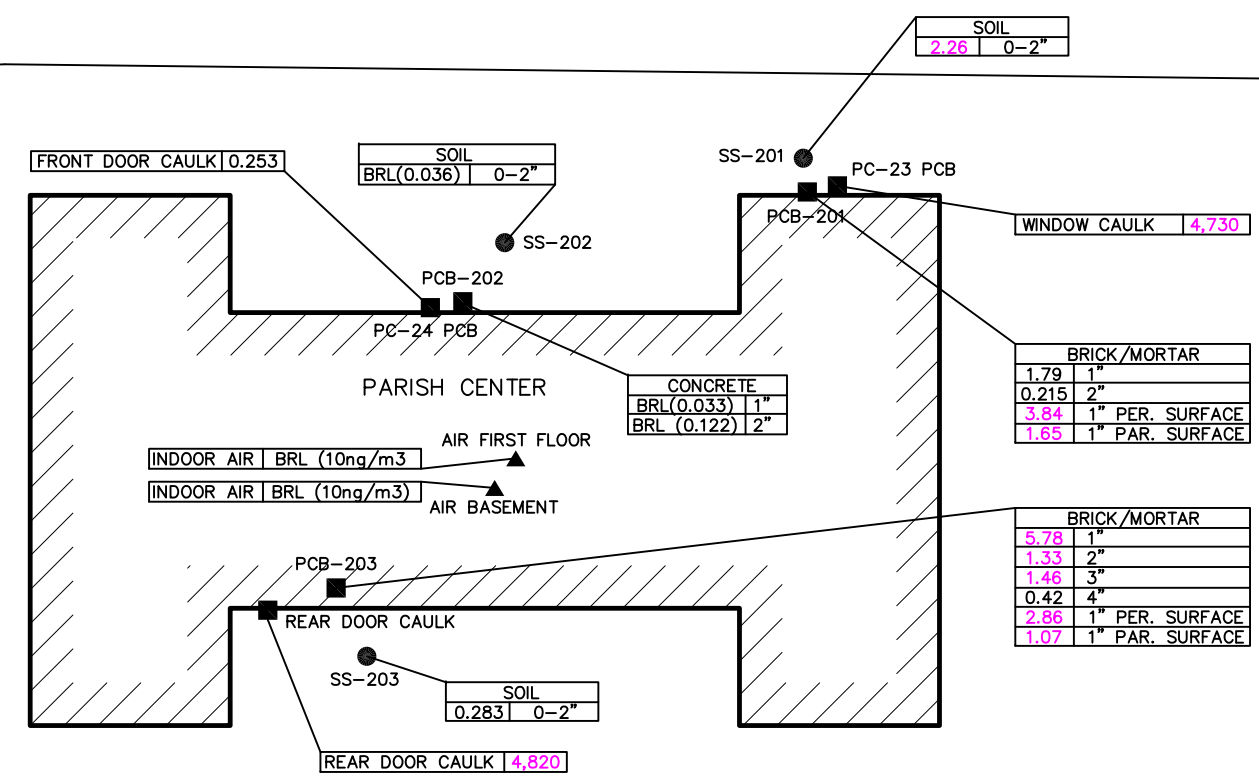
121.06071 Jan 2013

Figure 1
Site Plan



WALKER STREET

PIKE STREET

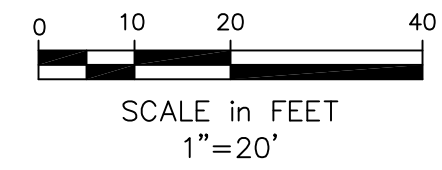


LEGEND:

- PCB-202 ■ BULK SAMPLE WITH MATERIAL SAMPLED; PCB CONCENTRATION (mg/kg) AT DEPTH (inches)
- AIR FIRST FLOOR ▲ INDOOR AIR SAMPLE WITH PCB CONCENTRATION (ng/m3)
- SS-202 ● SOIL SAMPLE WITH MATERIAL SAMPLED; PCB CONCENTRATION (mg/kg) AT DEPTH (feet bgs)
- BRL(0.033) BELOW REPORTING LIMIT (LIMIT)
- PER. PERPENDICULAR
- PAR. PARALLEL

NOTES:

1. SITE PLAN BASED ON MEASUREMENTS AND OBSERVATIONS MADE BY RANSOM CONSULTING, INC.
2. SOME FEATURES ARE APPROXIMATE IN LOCATION AND SCALE.
3. THIS PLAN HAS BEEN PREPARED FOR DEVELOPER'S COLLABORATIVE. ALL OTHER USES ARE NOT AUTHORIZED, UNLESS WRITTEN PERMISSION IS OBTAINED FROM RANSOM CONSULTING, INC.

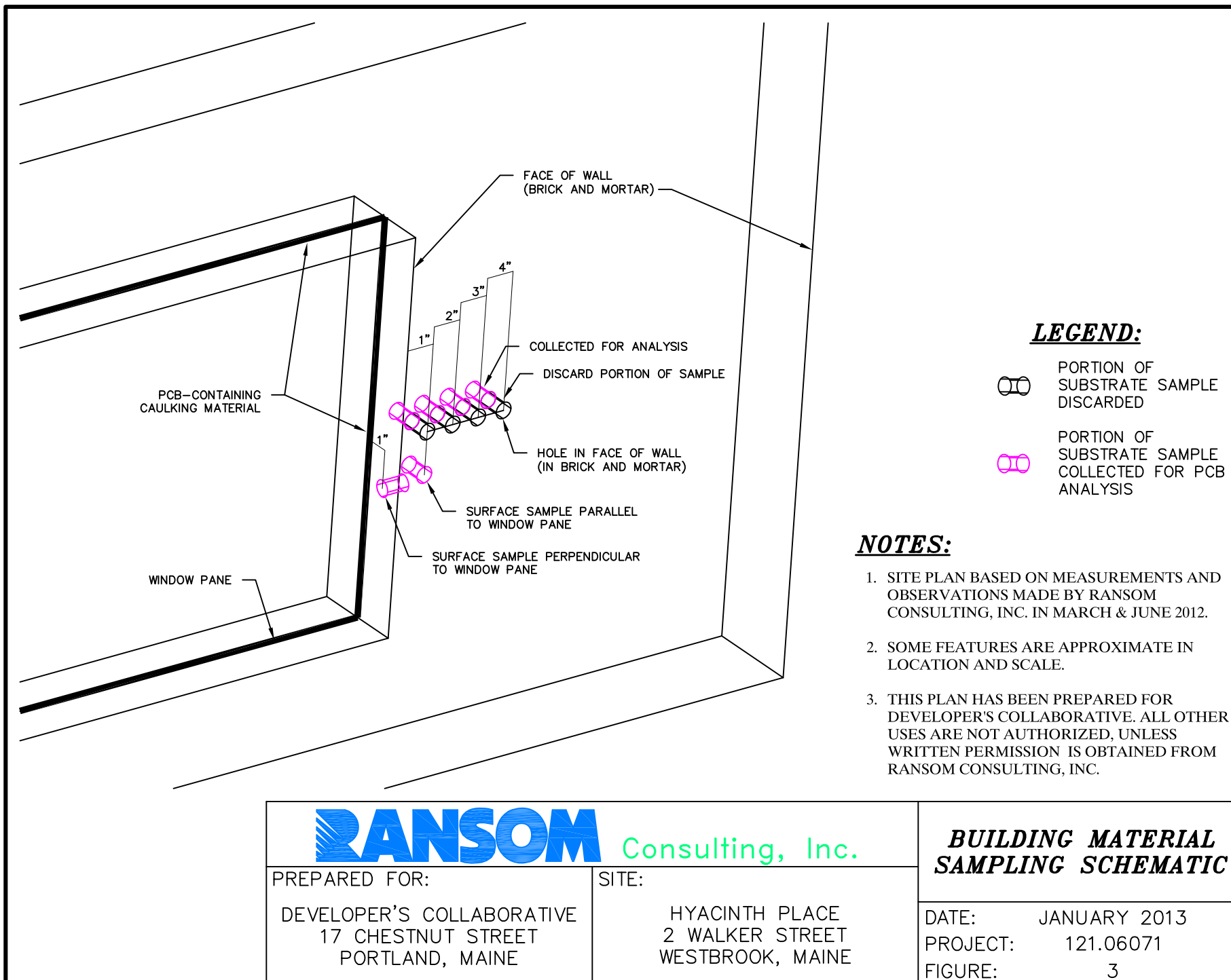


PREPARED FOR:
DEVELOPER'S COLLABORATIVE
17 CHESTNUT STREET
PORTLAND, MAINE

SITE:
HYACINTH PLACE
2 WALKER STREET
WESTBROOK, MAINE

**PARISH CENTER
PCB SAMPLE RESULTS**

DATE: JANUARY 2013
PROJECT: 121.06071
FIGURE: 2





MINIMUM OF 4" OF BRICK AND
MORTAR TO BE REMOVED

NOTES:

1. SITE PLAN BASED ON MEASUREMENTS AND OBSERVATIONS
MADE BY RANSOM CONSULTING, INC. IN MARCH & JUNE 2012.
2. SOME FEATURES ARE APPROXIMATE IN LOCATION AND SCALE.
3. THIS PLAN HAS BEEN PREPARED FOR DEVELOPER'S
COLLABORATIVE. ALL OTHER USES ARE NOT AUTHORIZED,
UNLESS WRITTEN PERMISSION IS OBTAINED FROM RANSOM
CONSULTING, INC.



Consulting, Inc.

PREPARED FOR:

DEVELOPER'S COLLABORATIVE
17 CHESTNUT STREET
PORTLAND, MAINE

SITE:

HYACINTH PLACE
2 WALKER STREET
WESTBROOK, MAINE

PROPOSED BRICK AND MORTAR REMOVAL STRATEGY

DATE: JANUARY 2013
PROJECT: 121.06071
FIGURE: 4

ATTACHMENT A

Photograph Log

Risk-Based Cleanup Plan, Revision 2
Polychlorinated Biphenyl (PCB) - Contaminated Building Materials
St. Anthony's Parish Property (Hyacinth Place)
2 Walker Street
Westbrook, Maine

Photograph Log



View of Parish Center building, looking west



View of Parish Center building looking south



Vinyl-frame windows (white) on western side of building



**Samples collected at 1'' and 2'' from source material
(multiple sample holes required for sample volume)**



Samples collected at 3'' and 4'' from source material



**Surface samples collected parallel and perpendicular to
window pane**



Northern wall of Parish Center Building showing 3 windows where caulking was observed along the bottom sill, in addition to the sides and top of the window opening.



Eastern wall of Parish Center building showing 3 windows where caulking was observed along the bottom sill, in addition to the sides and top of the window opening.

ATTACHMENT B

Laboratory Chemical Analysis Data Reports

Risk-Based Cleanup Plan, Revision 2
Polychlorinated Biphenyl (PCB) - Contaminated Building Materials
St. Anthony's Parish Property (Hyacinth Place)
2 Walker Street
Westbrook, Maine

Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

Report Number: 71781

Revision: Rev. 0

Re: St. Anthony's Parish Properties (Project No: 111.06128.002)

Enclosed are the results of the analyses on your sample(s). Samples were received on 12 December 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
71781-1	12/01/11	14 PCB	EPA 8082 (PCBs only)	
71781-2	12/01/11	15 PCB	EPA 8082 (PCBs only)	
71781-3	12/02/11	S-26 PCB	EPA 8082 (PCBs only)	
71781-4	12/02/11	S-27 PCB	EPA 8082 (PCBs only)	
71781-5	12/02/11	S-28 PCB	EPA 8082 (PCBs only)	
71781-6	12/02/11	PC-23 PCB	EPA 8082 (PCBs only)	
71781-7	12/02/11	PC-24 PCB	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: Samples received at 18.2°C which was outside laboratory acceptance criteria with limited volume and in the incorrect containers. The client was notified and analysis continued.

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Department of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature


Stephen L. Knollmeyer Lab. Director

Date

12/16/2011

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

December 16, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish Properties
Project Number: 111.06128.002
Field Sample ID: 14 PCB

Lab Sample ID: 71781-1
Matrix: Solid
Percent Solid: 100
Dilution Factor: 83
Collection Date: 12/01/11
Lab Receipt Date: 12/12/11
Extraction Date: 12/13/11
Analysis Date: 12/14/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	2740	U
PCB-1221	2740	U
PCB-1232	2740	U
PCB-1242	2740	U
PCB-1248	2740	U
PCB-1254	2740	U
PCB-1260	2740	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	61	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.



Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

December 16, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish Properties
Project Number: 111.06128.002
Field Sample ID: 15 PCB

Lab Sample ID: 71781-2
Matrix: Solid
Percent Solid: 100
Dilution Factor: 8
Collection Date: 12/01/11
Lab Receipt Date: 12/12/11
Extraction Date: 12/13/11
Analysis Date: 12/14/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	264	U
PCB-1221	264	U
PCB-1232	264	U
PCB-1242	264	U
PCB-1248	264	U
PCB-1254	264	680
PCB-1260	264	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	56	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

December 16, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish Properties
Project Number: 111.06128.002
Field Sample ID: S-26 PCB

Lab Sample ID: 71781-3
Matrix: Solid
Percent Solid: 100
Dilution Factor: 28
Collection Date: 12/02/11
Lab Receipt Date: 12/12/11
Extraction Date: 12/13/11
Analysis Date: 12/14/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	924	U
PCB-1221	924	U
PCB-1232	924	U
PCB-1242	924	U
PCB-1248	924	U
PCB-1254	924	U
PCB-1260	924	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	61	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Quantitation limits increased due to the sample matrix affect.

PCB Report

Authorized signature



Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

December 16, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish Properties
Project Number: 111.06128.002
Field Sample ID: S-27 PCB

Lab Sample ID: 71781-4
Matrix: Solid
Percent Solid: 100
Dilution Factor: 12
Collection Date: 12/02/11
Lab Receipt Date: 12/12/11
Extraction Date: 12/13/11
Analysis Date: 12/14/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	396	U
PCB-1221	396	U
PCB-1232	396	U
PCB-1242	396	U
PCB-1248	396	U
PCB-1254	396	U
PCB-1260	396	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	80	%
Decachlorobiphenyl	*	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Surrogate recovery affected by sample matrix. Secondary surrogate is in control.

PCB Report

Authorized signature



Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

December 16, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish Properties
Project Number: 111.06128.002
Field Sample ID: S-28 PCB

Lab Sample ID: 71781-5
Matrix: Solid
Percent Solid: 100
Dilution Factor: 39
Collection Date: 12/02/11
Lab Receipt Date: 12/12/11
Extraction Date: 12/13/11
Analysis Date: 12/15/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	1290	U
PCB-1221	1290	U
PCB-1232	1290	U
PCB-1242	1290	U
PCB-1248	1290	U
PCB-1254	1290	U
PCB-1260	1290	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	73	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

December 16, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish Properties
Project Number: 111.06128.002
Field Sample ID: PC-23 PCB

Lab Sample ID: 71781-6
Matrix: Solid
Percent Solid: 100
Dilution Factor: 8130
Collection Date: 12/02/11
Lab Receipt Date: 12/12/11
Extraction Date: 12/13/11
Analysis Date: 12/15/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	268000	U
PCB-1221	268000	U
PCB-1232	268000	U
PCB-1242	268000	U
PCB-1248	268000	U
PCB-1254	268000	4730000
PCB-1260	268000	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

Mr. Lucas Hathaway
Ransom Environmental Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

December 16, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish Properties
Project Number: 111.06128.002
Field Sample ID: PC-24 PCB

Lab Sample ID: 71781-7
Matrix: Solid
Percent Solid: 100
Dilution Factor: 5
Collection Date: 12/02/11
Lab Receipt Date: 12/12/11
Extraction Date: 12/13/11
Analysis Date: 12/15/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	165	U
PCB-1221	165	U
PCB-1232	165	U
PCB-1242	165	U
PCB-1248	165	U
PCB-1254	165	253
PCB-1260	165	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	70	%
Decachlorobiphenyl	68	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Chain Of Custody Form

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

analytics environmental
laboratory LLC

Project#: 111.06128.002 Proj. Name St Anthony's Parish Properties

Company: Ransom Consulting

Contact: Lucas Hathaway

Address: 400 Commercial Street

Portland, Maine 04101

Phone: 207-772-2891 PO# 3640 Quote #

Sampler (Signature): *Lucas*

Matrix Key:

C = Concrete

WP = Waste

WW = Wastewater

SW = Surface Water

GW = Groundwater

DW = Drinking Water

S = Soil/Sludge

O = Oil

E = Extract

X = Other

Preservation

P=plastic G=glass

Container Key

Container number/type

Matrix

Other

Methanol

H₂SO₄

HNO₃

40°C

Unpres

Analysis

Sample Time

Sample Date

Station Identification

14 PCB

15 PCB

S-26 PCB

S-27 PCB

S-28 PCB

PC-23 PCB

PC-24 PCB

Comments / Instructions:

Email Results to:

lucas.hathaway@ransomenv.com

Turnaround Request

Standard ☒ x

Priority ☐

Due Date

Due Date

Lab Approval Required

Analytics/IEL Documents/IEL COC

For Analytics Use Only Rev. 4 03/28/08

Samples were:

1) Shipped or hand-delivered

2) Temp blank °C 16.2

3) Received in good condition ☒ or N

4) pH checked by: N/A

5) Labels checked by: *8/12/11*

Container Key

P=plastic G=glass

Container number/type

Matrix

Other

Methanol

H₂SO₄

HNO₃

40°C

Unpres

Analysis

Sample Time

Sample Date

Station Identification

14 PCB

15 PCB

S-26 PCB

S-27 PCB

S-28 PCB

PC-23 PCB

PC-24 PCB

Project Requirements:

Report Type

MCP ☐

Level II ☐

Level III ☐

Level IV ☐

Standard ☒

State:

NH ☐

MA ☐

ME ☐

CT ☐

RI ☐

Other:

State Standard:

(eg. S-1 or GW-1)

EDD Required: Y*

Type:

Page 1 of 1

*Fee may apply

Relinquished By Sampler:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

For Analytics Use Only Rev. 4 03/28/08

Samples were:

1) Shipped or hand-delivered

2) Temp blank °C 16.2

3) Received in good condition ☒ or N

4) pH checked by: N/A

5) Labels checked by: *8/12/11*

Container Key

P=plastic G=glass

Container number/type

Matrix

Other

Methanol

H₂SO₄

HNO₃

40°C

Unpres

Analysis

Sample Time

Sample Date

Station Identification

14 PCB

15 PCB

S-26 PCB

S-27 PCB

S-28 PCB

PC-23 PCB

PC-24 PCB

Project Requirements:

Report Type

MCP ☐

Level II ☐

Level III ☐

Level IV ☐

Standard ☒

State:

NH ☐

MA ☐

ME ☐

CT ☐

RI ☐

Other:

State Standard:

(eg. S-1 or GW-1)

EDD Required: Y*

Type:

Page 1 of 1

*Fee may apply

Relinquished By Sampler:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 71781

CLIENT: Ransom

PROJECT: St. Anthony's Parish Properties

COOLER NUMBER: N/A (none)

NUMBER OF COOLERS: 0 - no cooler

DATE RECEIVED: 12/12/11

A: PRELIMINARY EXAMINATION:

1. Cooler received by (initials): OP

2. Circle one: Shipped Hand delivered (If so, skip 3)

3. Did cooler come with a shipping slip?

3a. Enter carrier name and airbill number here:

4. Were custody seals on the outside of cooler?

How many & where: _____ Seal Date: _____

5. Did the custody seals arrive unbroken and intact upon arrival?

6. COC: N/A

7. Were Custody papers filled out properly (ink, signed, etc)?

8. Were custody papers sealed in a plastic bag?

9. Did you sign the COC in the appropriate place?

10. Was the project identifiable from the COC papers?

11. Was enough ice used to chill the cooler?

N

Temp. of cooler:

18.2° noice

B. Log-In: Date samples were logged in:

12/12/11

By: OP

12. Type of packing in cooler (bubble wrap, popcorn)

Y

N

13. Were all bottles sealed in separate plastic bags?

Y

N

14. Did all bottles arrive unbroken and were labels in good condition?

Y

N/A

15. Were all bottle labels complete (ID, Date, time, etc.)

Y

N

16. Did all bottle labels agree with custody papers?

Y

N

17. Were the correct containers used for the tests indicated?

Y

N

18. Were samples received at the correct pH?

Y

N/A

19. Was sufficient amount of sample sent for the tests indicated?

Y

N

20. Were all samples submitted within holding time?

Y

N

21. Were bubbles absent in VOA samples?

Y

N/A

came in plastic bags not glass jars
reporting "as received"
not enough for %
Solid

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials):

JB

Date:

12/12/11

**SAMPLE RECEIPT
NON-COMPLIANCE NOTIFICATION
(SENT VIA FACSIMILE)**

Faxed 12/12

DATE 12/12/11 FROM _____
FAX CONTACT Lucas Hathaway FAX NUMBER _____
CLIENT Ransom LAB NUMBER 71781

The exceptions noted below were found on the sample(s) received on the attached Chain of Custody (COC) form. These exceptions may render the data results as non-defensible. Analytics will continue to proceed with the analysis of the sample(s) unless notified in writing to stop the analysis. This document may become part of the final report.

Please check the appropriate box and sign below and fax back to "Sample Receipt" at 603-430-2151.

Exceptions:

- ☒ Sample(s) not on ice or not at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ @ 18.2^{\circ} no ice
- ☐ Sample(s) received unpreserved or not at the proper pH.
(pH was adjusted at the laboratory)
- ☒ Sample(s) received in incorrect containers
- ☒ Insufficient sample volume received
(Detection limits may be elevated due to this exception)
- ☐ Trip Blank provided in cooler, but not recorded on the chain of custody
- ☐ Other: _____

Acknowledgment:

- ☐ Please do not analyze/report Trip Blank, proceed with other analyses
- ☐ Proceed with the analysis.
- ☐ Please stop the analysis and wait for further instructions.

Signed: _____ Print Name: _____

Date: _____

52 **FedEx**® US Airbill
Express

FedEx
Tracking
Number

8715 2195 9780

1 From This position can be removed for Recipient's records.

Date 11/19/11 FedEx Tracking Number 871521959780
Sender's Name Lucas H. Haggans Phone 207 778-2891
Company BARBON ENVIRONMENTAL
Address 400 COMMERCIAL ST STE 401
City PORTLAND State ME ZIP 04101
Dept./Floor/Suite/Room

2 Your Internal Billing Reference 11-06176-002-03

3 To Recipient's Name Sample Recog Phone 603 436-5111
Company Analytics Lab HOLD Weekday ☐ HOLD Saturday ☐
Address 148 Commerce Way Print FedEx location address here if HOLD option is selected.
We cannot deliver to P.O. boxes or P.O. ZIP codes. Tate E
City Portsmouth State NH ZIP 03801
Dept./Floor/Suite/Room



8715 2195 9780

0215

Recipient's Copy

4a Express Package Service

☐ FedEx Priority Overnight
Next business day, morning. * Friday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
☐ FedEx 2day
Second business day. * Thursday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
☐ FedEx Express Saver
Third business day. *
Saturday Delivery NOT available.

4b Express Freight Service

☐ FedEx 1Day Freight
Next business day. * Friday shipments will
be delivered on Monday unless SATURDAY
Delivery is selected.
☐ FedEx 2Day Freight
Second business day. * Thursday shipments will
be delivered on Monday unless SATURDAY
Delivery is selected.
☐ FedEx 3Day Freight
Third business day. * Saturday Delivery NOT available.

5 Packaging

☐ FedEx Envelope*
☒ FedEx Pak*
Larger Pak and FedEx Surety Pak.
☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3day Freight.
☐ No Signature Required
Package may be left without
obtaining a signature for delivery.
☐ Direct Signature
Someone at recipient's address
may sign for delivery. Fee applies.
☐ Indirect Signature
Info one is available at recipient's
address. A signature from a family member
or a business associate may sign for delivery. For
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.
☒ No ☐ Yes
Dry Ice ☐ Dry Ice 3 UN 1845 ☐ Cargo Aircraft Only
Dangerous goods (including Dry Ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

7 Payment \$/lb for:

Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
I will be billed. Obtain Recp. Acct. No.

Total Packages ☐ Total Weight ☐ Credit Card Auth.

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Rev. Date 2/08/Part #15277-01/04-2008 FedEx PRINTED IN U.S.A.-SUS

553

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March 26, 2012

Mr. Erik Phenix
Ransom Consultants, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

**RE: Analytical Results Case Narrative
St Anthony's Parish Project No: 111.06128.002
Analytics #72333**

Dear Mr. Phenix:

Enclosed please find the analytical report for samples collected from the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Extractable Petroleum Hydrocarbons (EPH) using MADEP EPH Method 2004 Rev 1.1 and Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II package has been assembled in the following order:

- Case Narrative/Non-Conformance Summary
- Sample Log Sheet - Cover Page
- EPH Form I Data Sheet for Samples and Blanks
 - Chromatograms
- EPH Form 3 MS/MSD (LCS) Recoveries
- PCB Form I Data Sheet for Samples and Blanks
 - Chromatograms
- PCB Form 3 MS/MSD (LCS) Recoveries
 - Chromatograms
- Chain of Custody (COC) Forms
- Sample Receipt Checklist

QC NON-CONFORMANCE SUMMARY

Sample Receipt:

No exceptions.

Extractable Petroleum Hydrocarbons (EPH):

No QC deviations.

PCBs by EPA Method 8082:

No results were reported below the quantitation limit.

Samples 72333-1, 72333-5 thru 72333-8 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

The closing continuing calibration standard (M55579Sc) had low recovery for Decachlorobiphenyl (82%) on column#1. The standard was reanalyzed (M55581SC) with similar results. Results were reported from column#2 without qualification.

The closing continuing calibration standards (L29153SC & L29155SC) had low recovery for Decachlorobiphenyl on both columns. The analytical window was analyzed previously with similar results. All sample had acceptable surrogate results. Results were reported without qualification.

If you have any questions or I can be of further assistance please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC



Stephen Knollmeyer
Laboratory Director

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

Report Number: 72333

Revision: Rev. 0

Re: St. Anthony's Parish (Project No: 111.06128.002)

Enclosed are the results of the analyses on your sample(s). Samples were received on 12 March 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

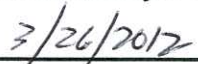
Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Department of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature


Stephen L. Knollmeyer Lab. Director

Date


3/26/2012

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

CLIENT: Ransom Consulting, Inc.

REPORT NUMBER: 72333

REV: Rev. 0

PROJECT: St. Anthony's Parish (Project No: 111.06128.002)

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
72333-1	03/08/12	PCB-201@1"	EPA 8082 (PCBs only)	
72333-2	03/08/12	PCB-201@2"	EPA 8082 (PCBs only)	
72333-3	03/08/12	PCB-202@1"	EPA 8082 (PCBs only)	
72333-4	03/08/12	PCB-202@2"	EPA 8082 (PCBs only)	
72333-5	03/08/12	PCB-203@1"	EPA 8082 (PCBs only)	
72333-6	03/08/12	PCB-203@2"	EPA 8082 (PCBs only)	
72333-7	03/08/12	PCB-20DUP@1"	EPA 8082 (PCBs only)	
72333-8	03/09/12	SS-201	EPA 8082 (PCBs only)	
72333-9	03/09/12	SS-202	EPA 8082 (PCBs only)	
72333-10	03/09/12	SS-203	EPA 8082 (PCBs only)	
72333-11	03/09/12	B102@1'	MADEP EPH	
72333-12	03/09/12	B102 DUP	MADEP EPH	
72333-13	03/09/12	B104@12'	MADEP EPH	
72333-14	03/09/12	BK-1	Electronic Data Deliverable	
	03/09/12	BK-1	EPA 8082 (PCBs only)	
	03/09/12	BK-1	MADEP EPH	

Surrogate Compound Limits

	Matrix: Units:	Aqueous % Recovery	Solid % Recovery	Method
Volatile Organic Compounds - Drinking Water				
1,4-Difluorobenzene		70-130		EPA 524.2
Bromofluorobenzene		70-130		
1,2-Dichlorobenzene-d4		70-130		
Volatile Organic Compounds				
1,2-Dichloroethane-d4		70-120	70-120	EPA 624/8260B
Toluene-d8		85-120	85-120	
Bromofluorobenzene		75-120	75-120	
Semi-Volatile Organic Compounds				
2-Fluorophenol		20-110	35-105	EPA 625/8270C
d5-Phenol		15-110	40-100	
d5-nitrobenzene		40-110	35-100	
2-Fluorobiphenyl		50-110	45-105	
2,4,6-Tribromophenol		40-110	40-125	
d14-p-terphenyl		50-130	30-125	
PAH's by SIM				
d5-nitrobenzene		21-110	35-110	EPA 8270C
2-Fluorobiphenyl		36-121	45-105	
d14-p-terphenyl		33-141	30-125	
Pesticides and PCBs				
2,4,5,6-Tetrachloro-m-xylene (TCX)		46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)		40-135	40-130	
Herbicides				
Dichloroacetic acid (DCAA)		30-150	30-150	
Gasoline Range Organics/TPH Gasoline				
Trifluorotoluene TFT (FID)		60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)		60-140	60-140	
Trifluorotoluene TFT (PID)		60-140	60-140	
Bromofluorobenzene (BFB) (PID)		60-140	60-140	
Diesel Range Organics/TPH Diesel				
m-terphenyl		60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons				
2,5-Dibromotoluene (PID)		70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)		70-130	70-130	
Extracatable Petroleum Hydrocarbons				
1-chloro-octadecane (aliphatic)		40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)		40-140	40-140	
2-Fluorobiphenyl (Fractionation)		40-140	40-140	
2-Bromonaphthalene (fractionation)		40-140	40-140	

EPH
DATA SUMMARIES

March 16, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish

Project Number: 111.06128.002

Client Sample ID: LabQC

SAMPLE DATA

Lab Sample ID: B031412EASE

Matrix: Solid

Percent Solid: 100

Dilution Factor: 1.0

Collection Date:

Lab Receipt Date:


Extraction Date: 03/14/12

Analysis Date: 03/15/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	13300	µg/kg	U
Diesel PAH Analytes	Naphthalene	267	µg/kg
	2-Methylnaphthalene	267	µg/kg
	Phenanthrene	267	µg/kg
	Acenaphthene	267	µg/kg
Other Target PAH Analytes	Acenaphthylene	267	µg/kg
	Fluorene	267	µg/kg
	Anthracene	267	µg/kg
	Fluoranthene	267	µg/kg
	Pyrene	267	µg/kg
	Benzo[a]anthracene	267	µg/kg
	Chrysene	267	µg/kg
	Benzo[b]fluoranthene	267	µg/kg
	Benzo[k]fluoranthene	267	µg/kg
	Benzo[a]pyrene	267	µg/kg
	Indeno[1,2,3-cd]pyrene	267	µg/kg
	Dibenzo[a,h]anthracene	267	µg/kg
	Benzo[g,h,i]perylene	267	µg/kg
C9-C18 Aliphatic Hydrocarbons ¹	13300	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	13300	µg/kg	U
C11-C22 Aromatic Hydrocarbons ^{1,2}	13300	µg/kg	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			61
Aromatic Surrogate % Recovery (O-Terphenyl)			76
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			82
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			82
Fractionation Surrogate Acceptance Range	--	--	40-140%
¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.			
² C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.			
RL = Report Limit			
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank			

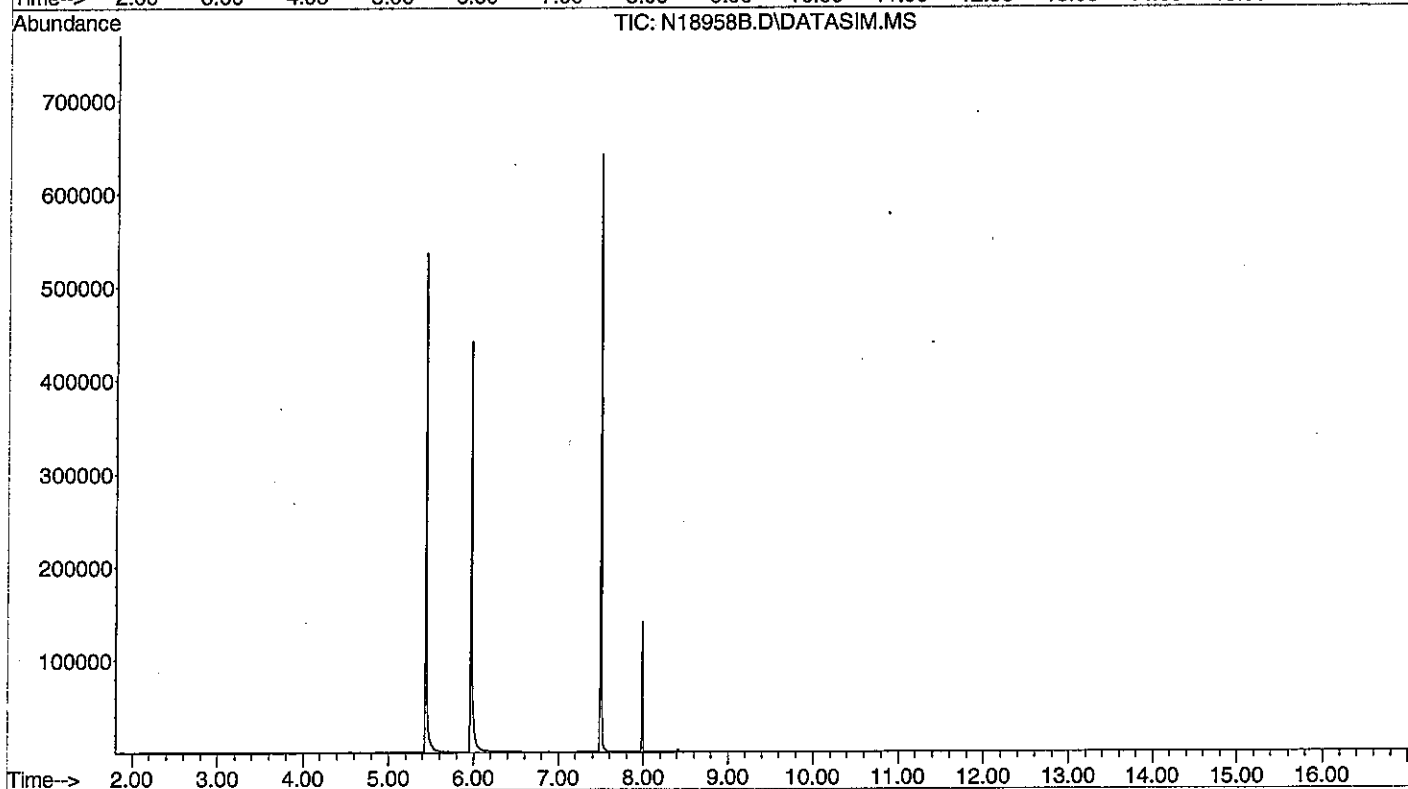
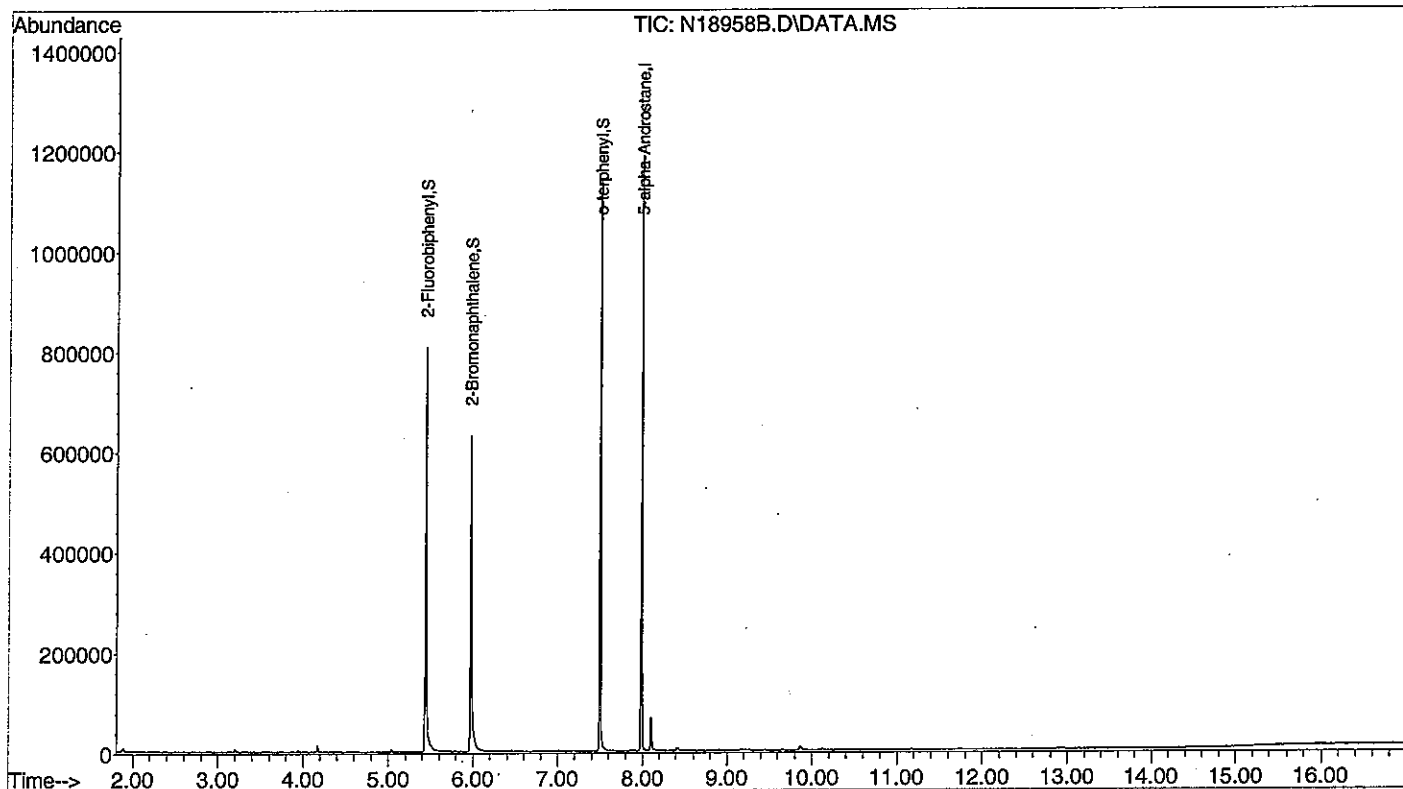
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\031412-N\
Data File : N18958B.D
Acq On : 15 Mar 2012 1:38 am
Operator : AR
Sample : B031412EASE
Misc : SOIL,ARO
ALS Vial : 10 Sample Multiplier: 1

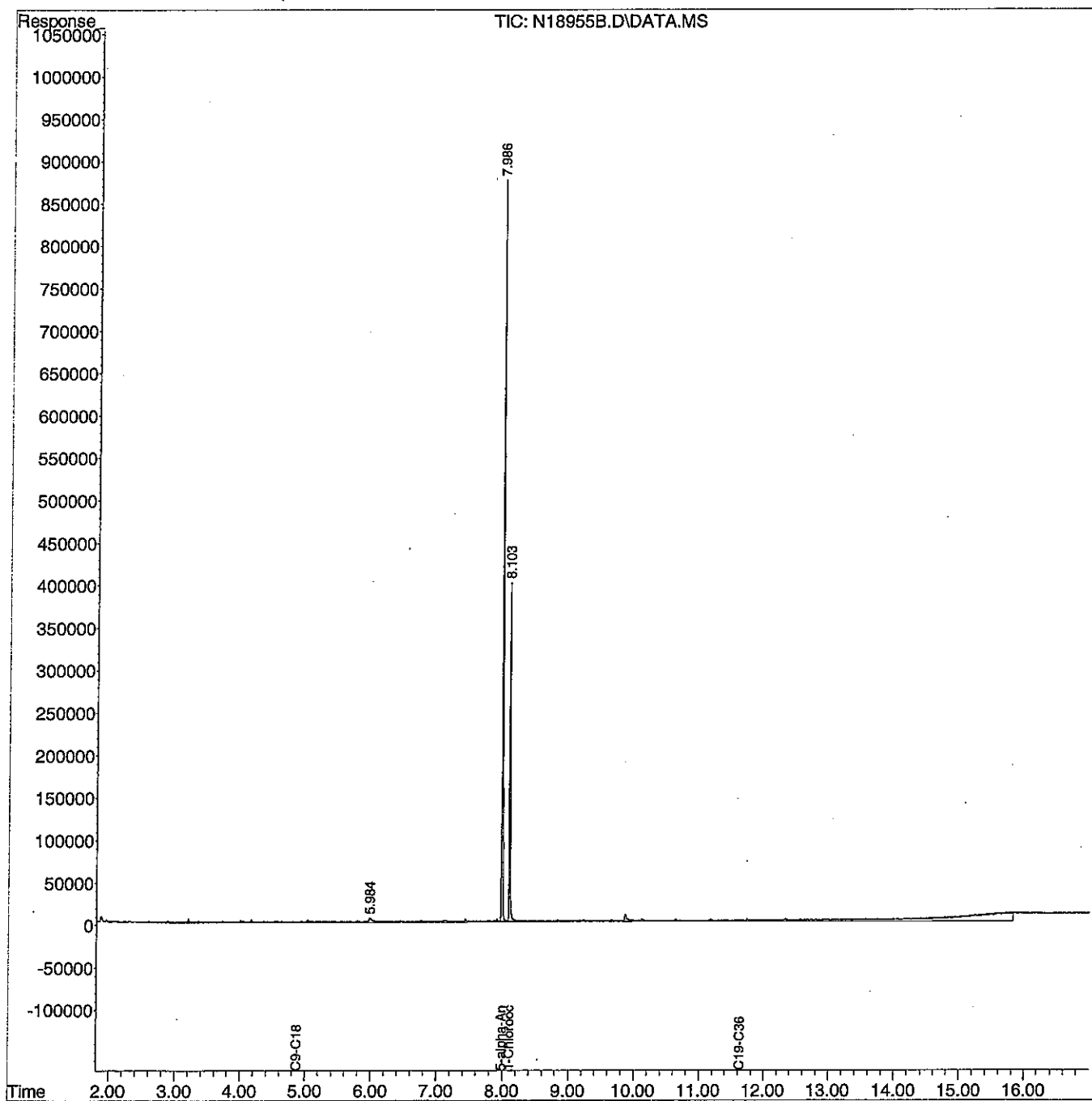
Quant Time: Mar 15 15:23:48 2012
Quant Method : C:\msdchem\1\METHODS\ARM031312N.M
Quant Title : EPH MS AROMATICS
QLast Update : Wed Mar 14 23:24:04 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\031412-N\
Data File : N18955B.D
Signal(s) : DATA.MS
Acq On : 15 Mar 2012 12:37 am
Operator : AR
Sample : B031412EASE
Misc : SOIL,ALI
ALS Vial : 7 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Mar 15 15:05:07 2012
Quant Method : C:\msdchem\1\METHODS\ALG022812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Tue Mar 13 22:52:47 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



March 16, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Client Sample ID: B102@1'

SAMPLE DATA

Lab Sample ID: 72333-11
Matrix: Solid
Percent Solid: 89
Dilution Factor: 1.1
Collection Date: 03/09/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/14/12
Analysis Date: 03/15/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics ¹	14200	µg/kg	U
Diesel PAH Analytes	Naphthalene	285 µg/kg	U
	2-Methylnaphthalene	285 µg/kg	U
	Phenanthrene	285 µg/kg	205 J
	Acenaphthene	285 µg/kg	U
Other Target PAH Analytes	Acenaphthylene	285 µg/kg	U
	Fluorene	285 µg/kg	U
	Anthracene	285 µg/kg	U
	Fluoranthene	285 µg/kg	307
	Pyrene	285 µg/kg	244 J
	Benzo[a]anthracene	285 µg/kg	U
	Chrysene	285 µg/kg	143 J
	Benzo[b]fluoranthene	285 µg/kg	173 J
	Benzo[k]fluoranthene	285 µg/kg	U
	Benzo[a]pyrene	285 µg/kg	U
	Indeno[1,2,3-cd]pyrene	285 µg/kg	U
	Dibenzo[a,h]anthracene	285 µg/kg	U
	Benzo[g,h,i]perylene	285 µg/kg	U
C9-C18 Aliphatic Hydrocarbons ¹	14200	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹	14200	µg/kg	U
C11-C22 Aromatic Hydrocarbons ^{1,2}	14200	µg/kg	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			61
Aromatic Surrogate % Recovery (O-Terphenyl)			76
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			80
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			78
Fractionation Surrogate Acceptance Range	--	--	40-140%
¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.			
² C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.			
RL = Report Limit			
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank			

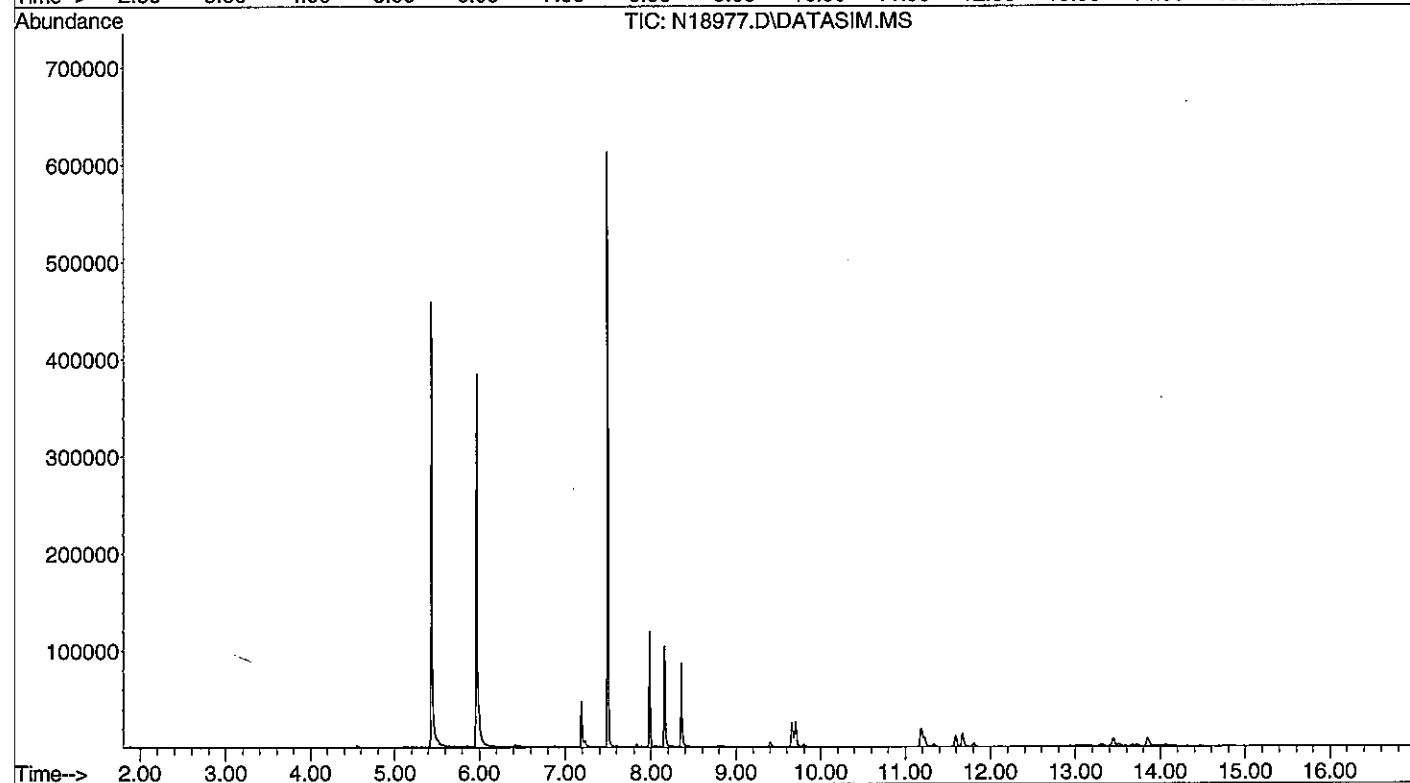
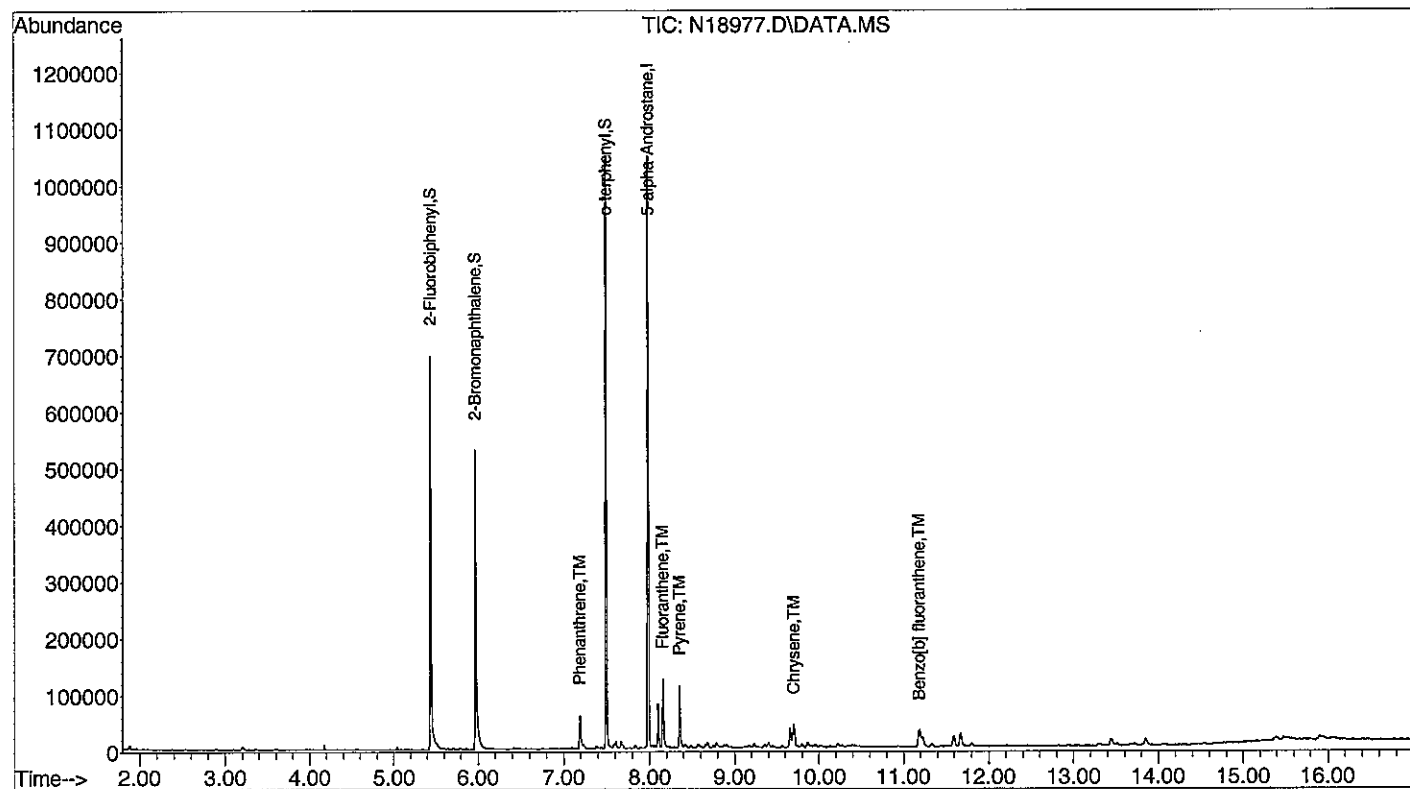
METHODOLOGY MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE 

Data Path : C:\msdchem\1\DATA\031412-N\
Data File : N18977.D
Acq On : 15 Mar 2012 8:10 am
Operator : AR
Sample : 72333-11
Misc : SOIL, ARO
ALS Vial : 29 Sample Multiplier: 1

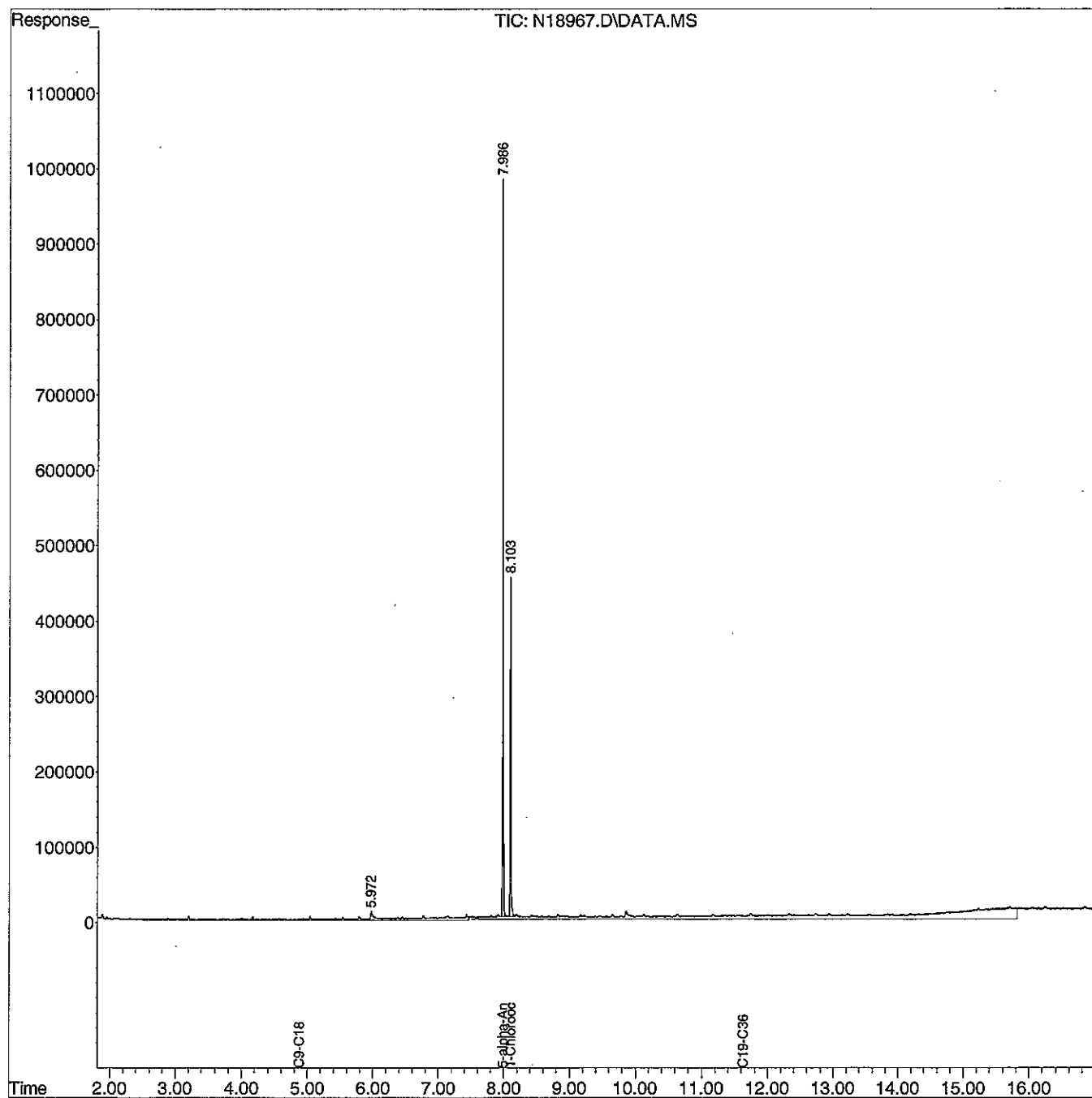
Quant Time: Mar 15 15:30:34 2012
Quant Method : C:\msdchem\1\METHODS\ARM031312N.M
Quant Title : EPH MS AROMATICS
QLast Update : Wed Mar 14 23:24:04 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\031412-N\
Data File : N18967.D
Signal(s) : DATA.MS
Acq On : 15 Mar 2012 4:44 am
Operator : AR
Sample : 72333-11
Misc : SOIL,ALI
ALS Vial : 19 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Mar 15 15:14:35 2012
Quant Method : C:\msdchem\1\METHODS\ALG022812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Tue Mar 13 22:52:47 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



March 16, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish

Project Number: 111.06128.002

Client Sample ID: B102 DUP

SAMPLE DATA

Lab Sample ID: 72333-12
Matrix: Solid
Percent Solid: 92
Dilution Factor: 1.1
Collection Date: 03/09/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/14/12
Analysis Date: 03/15/12

EPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics ¹		14300	µg/kg	U
Diesel PAH Analytes	Naphthalene	287	µg/kg	U
	2-Methylnaphthalene	287	µg/kg	U
	Phenanthrene	287	µg/kg	U
	Acenaphthene	287	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	287	µg/kg	U
	Fluorene	287	µg/kg	U
	Anthracene	287	µg/kg	U
	Fluoranthene	287	µg/kg	U
	Pyrene	287	µg/kg	U
	Benzo[a]anthracene	287	µg/kg	U
	Chrysene	287	µg/kg	U
	Benzo[b]fluoranthene	287	µg/kg	U
	Benzo[k]fluoranthene	287	µg/kg	U
	Benzo[a]pyrene	287	µg/kg	U
	Indeno[1,2,3-cd]pyrene	287	µg/kg	U
	Dibenzo[a,h]anthracene	287	µg/kg	U
	Benzo[g,h,i]perylene	287	µg/kg	U
C9-C18 Aliphatic Hydrocarbons ¹		14300	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹		14300	µg/kg	U
C11-C22 Aromatic Hydrocarbons ^{1,2}		14300	µg/kg	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				64
Aromatic Surrogate % Recovery (O-Terphenyl)				76
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				80
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				78
Fractionation Surrogate Acceptance Range		--	--	40-140%
¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.				
² C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.				
RL = Report Limit				
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank				

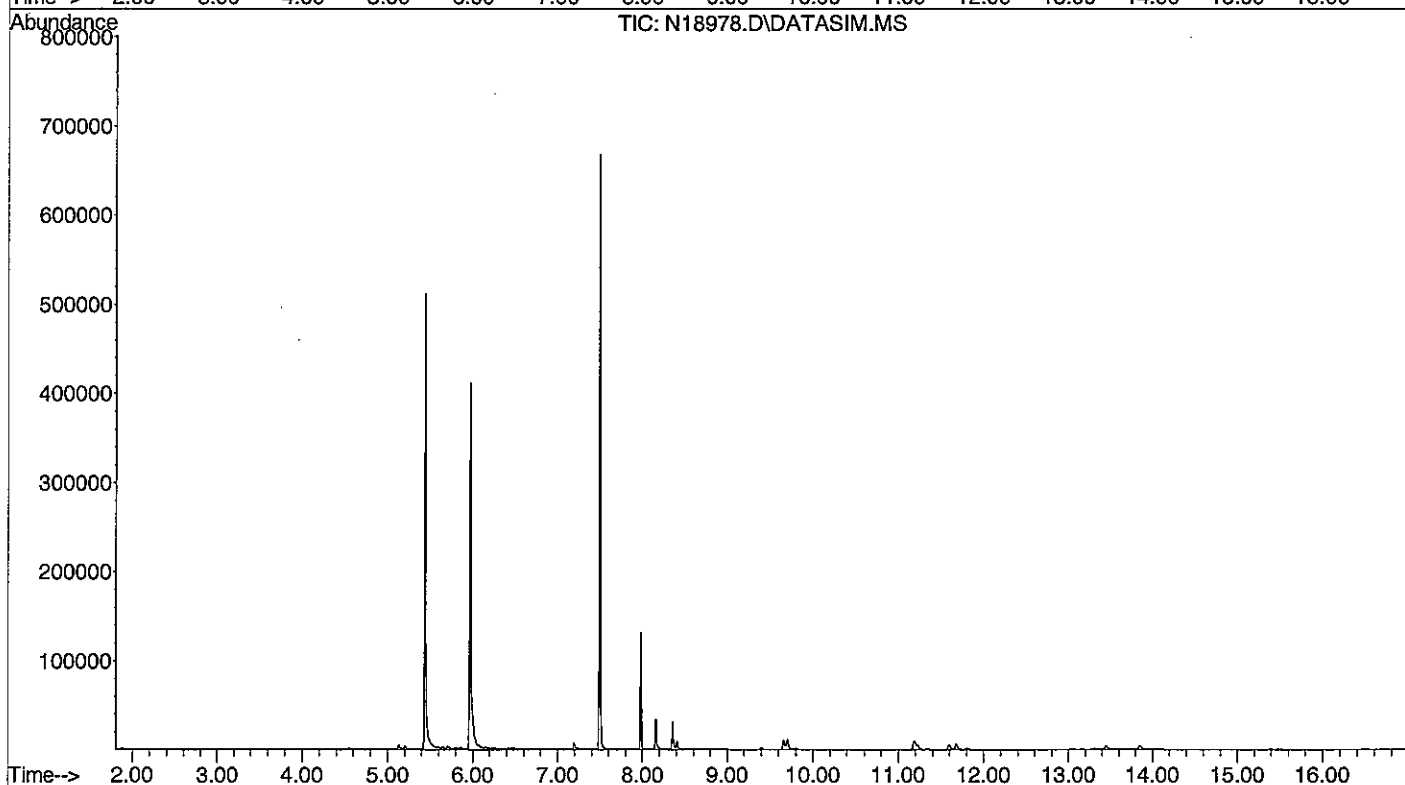
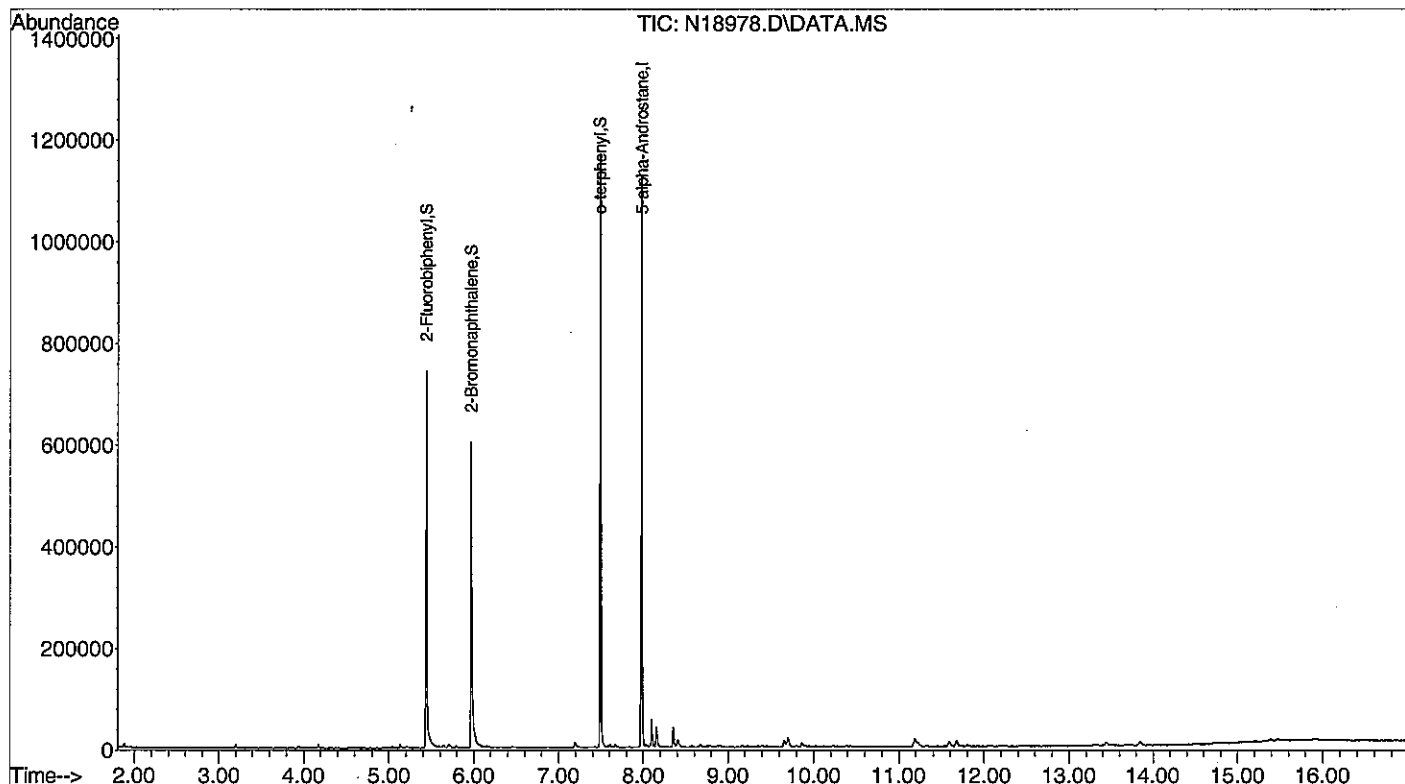
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE 

Data Path : C:\msdchem\1\DATA\031412-N\
 Data File : N18978.D
 Acq On : 15 Mar 2012 8:31 am
 Operator : AR
 Sample : 72333-12
 Misc : SOIL, ARO
 ALS Vial : 30 Sample Multiplier: 1

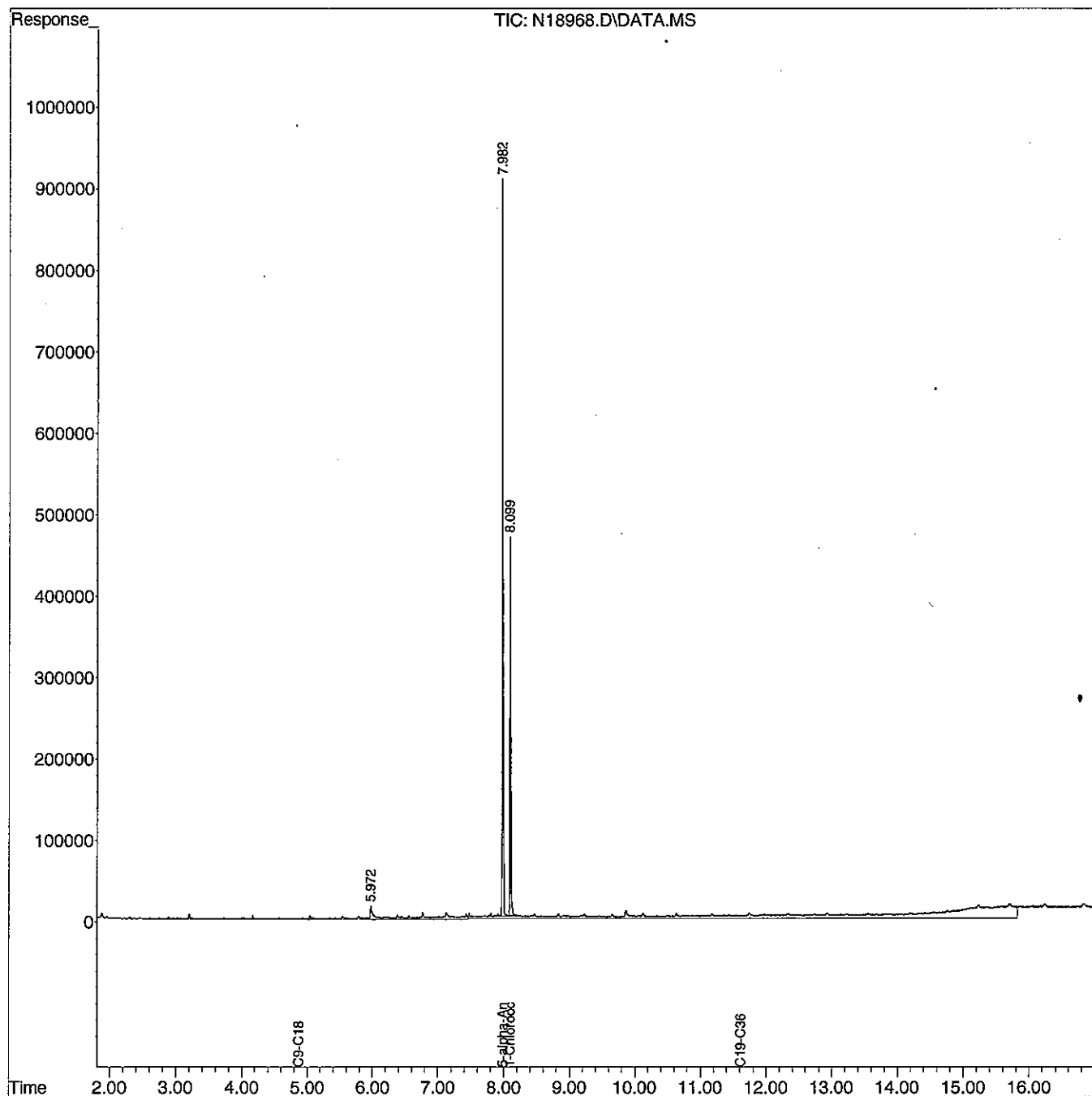
Quant Time: Mar 15 15:30:54 2012
 Quant Method : C:\msdchem\1\METHODS\ARM031312N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Wed Mar 14 23:24:04 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\031412-N\
Data File : N18968.D
Signal(s) : DATA.MS
Acq On : 15 Mar 2012 5:05 am
Operator : AR
Sample : 72333-12
Misc : SOIL,ALI
ALS Vial : 20 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Mar 15 15:14:41 2012
Quant Method : C:\msdchem\1\METHODS\ALG022812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Tue Mar 13 22:52:47 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



March 16, 2012

Mr. Erik Phénix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish

Project Number: 111.06128.002

Client Sample ID: B104@12'

SAMPLE DATA

Lab Sample ID: 72333-13

Matrix: Solid

Percent Solid: 69

Dilution Factor: 1.4

Collection Date: 03/09/12

Lab Receipt Date: 03/12/12

Extraction Date: 03/14/12

Analysis Date: 03/15/12

EPH ANALYTICAL RESULTS				
RANGE/TARGET ANALYTE		RL	Units	Result
Unadjusted C11-C22 Aromatics ¹		18700	µg/kg	U
Diesel PAH Analytes	Naphthalene	375	µg/kg	U
	2-Methylnaphthalene	375	µg/kg	U
	Phenanthrene	375	µg/kg	U
	Acenaphthene	375	µg/kg	U
Other Target PAH Analytes	Acenaphthylene	375	µg/kg	U
	Fluorene	375	µg/kg	U
	Anthracene	375	µg/kg	U
	Fluoranthene	375	µg/kg	U
	Pyrene	375	µg/kg	U
	Benzo[a]anthracene	375	µg/kg	U
	Chrysene	375	µg/kg	U
	Benzo[b]fluoranthene	375	µg/kg	U
	Benzo[k]fluoranthene	375	µg/kg	U
	Benzo[a]pyrene	375	µg/kg	U
	Indeno[1,2,3-cd]pyrene	375	µg/kg	U
	Dibenzo[a,h]anthracene	375	µg/kg	U
	Benzo[g,h,i]perylene	375	µg/kg	U
C9-C18 Aliphatic Hydrocarbons ¹		18700	µg/kg	U
C19-C36 Aliphatic Hydrocarbons ¹		18700	µg/kg	U
C11-C22 Aromatic Hydrocarbons ^{1,2}		18700	µg/kg	U
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)				57
Aromatic Surrogate % Recovery (O-Terphenyl)				73
Sample Surrogate Acceptance Range		--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)				75
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)				78
Fractionation Surrogate Acceptance Range		--	--	40-140%
¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.				
² C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.				
RL = Report Limit				
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank				

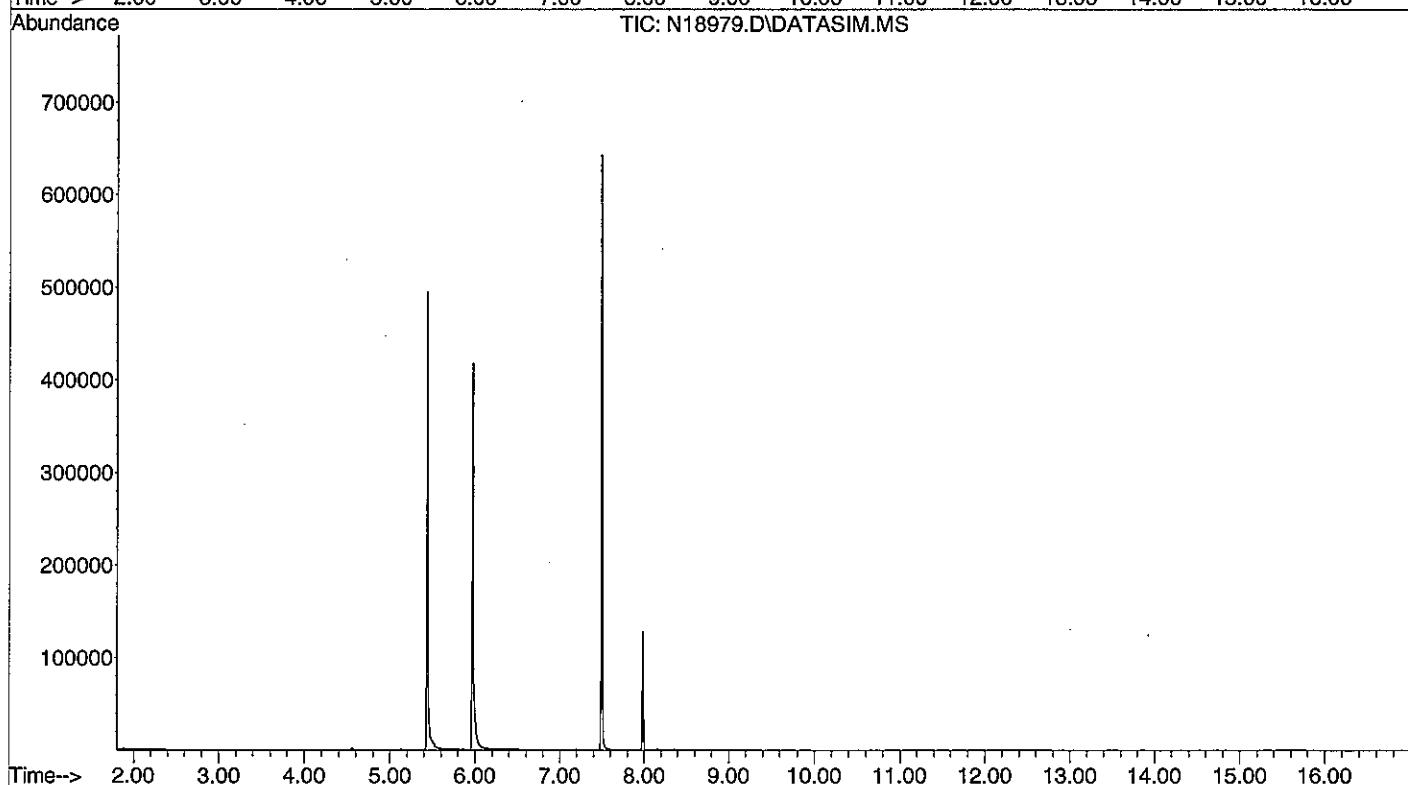
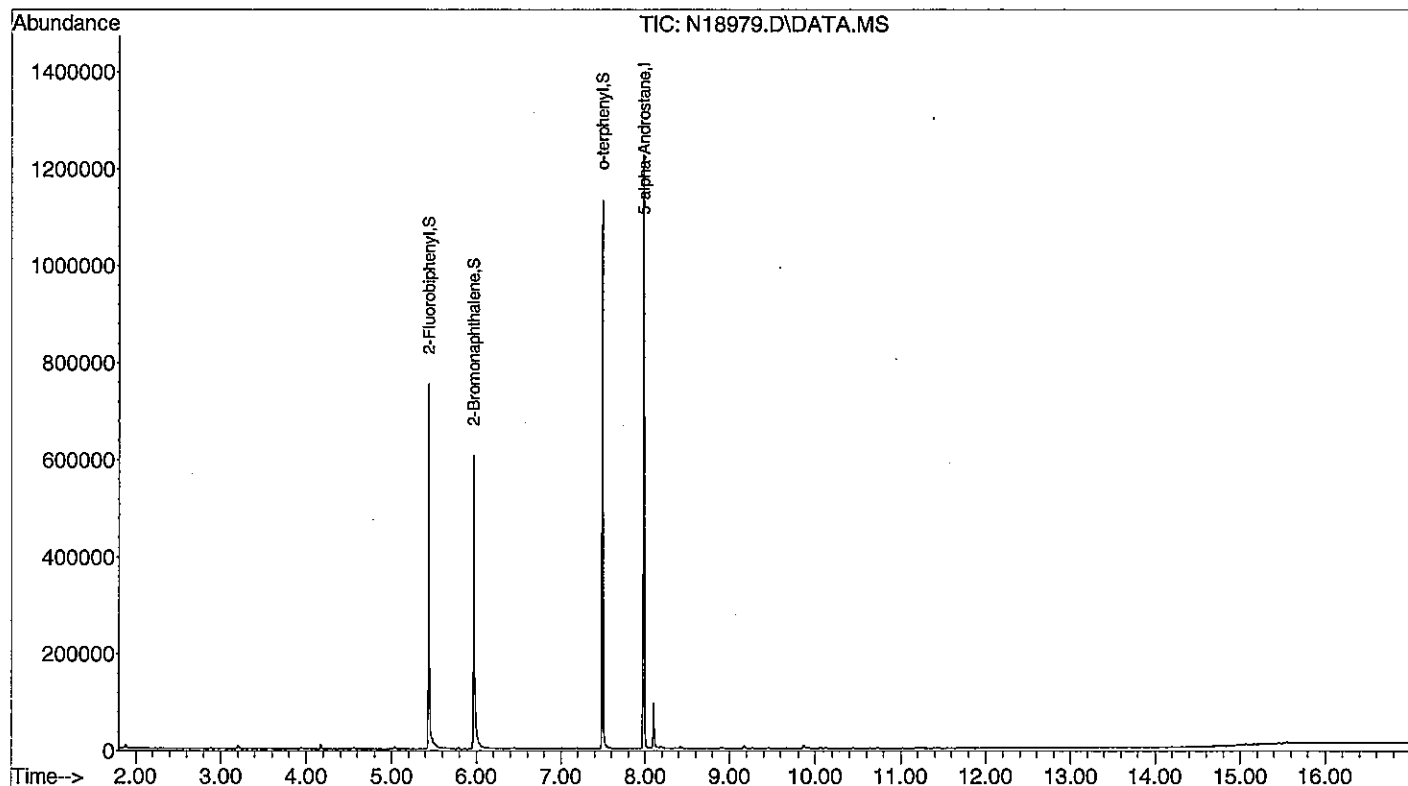
METHODOLOGY:MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: *Angelina Richard*

Data Path : C:\msdchem\1\DATA\031412-N\
 Data File : N18979.D
 Acq On : 15 Mar 2012 8:51 am
 Operator : AR
 Sample : 72333-13
 Misc : SOIL, ARO
 ALS Vial : 31 Sample Multiplier: 1

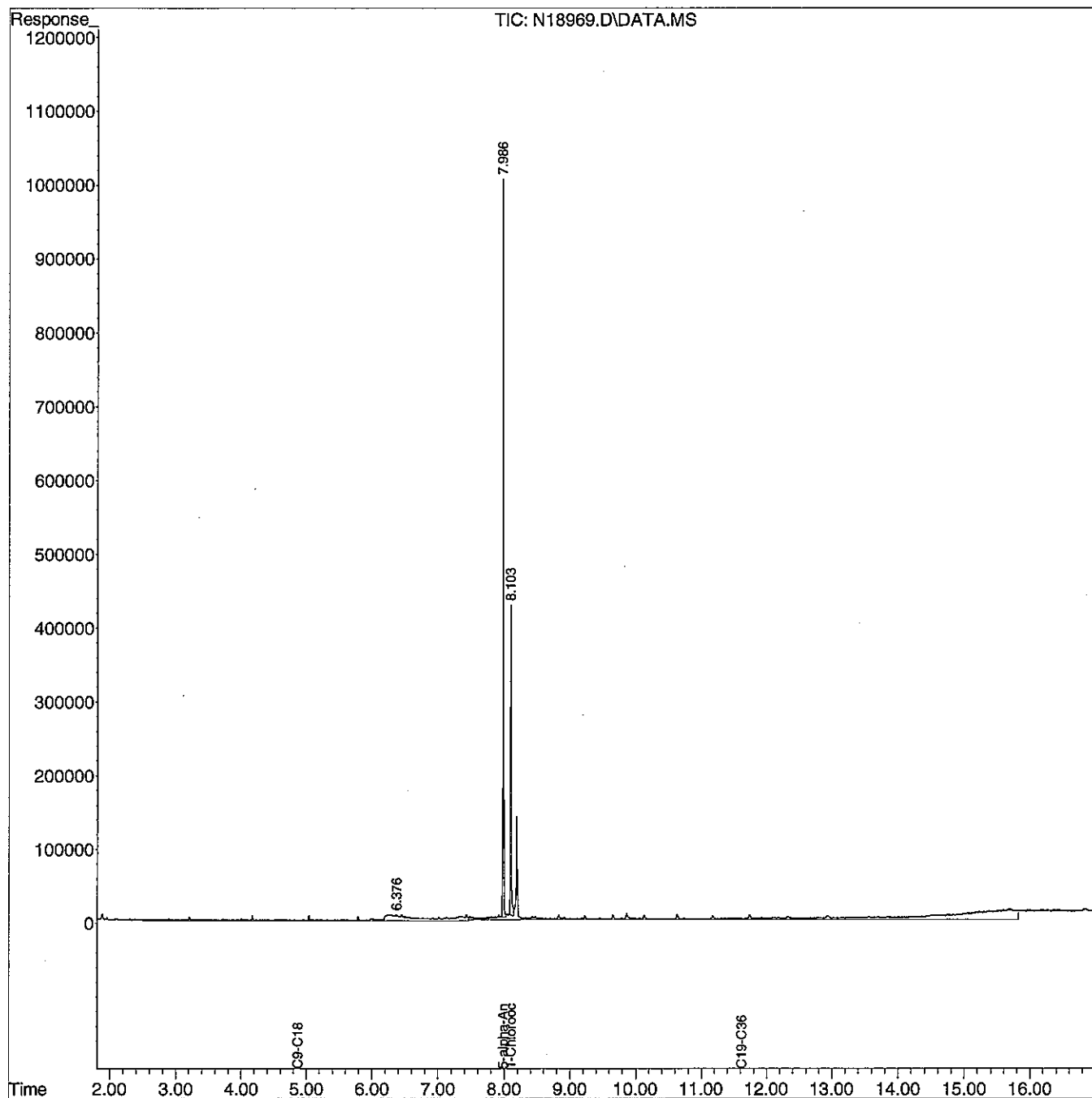
Quant Time: Mar 15 15:31:06 2012
 Quant Method : C:\msdchem\1\METHODS\ARM031312N.M
 Quant Title : EPH MS AROMATICS
 QLast Update : Wed Mar 14 23:24:04 2012
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\031412-N\
 Data File : N18969.D
 Signal(s) : DATA.MS
 Acq On : 15 Mar 2012 5:25 am
 Operator : AR
 Sample : 72333-13
 Misc : SOIL,ALI
 ALS Vial : 21 Sample Multiplier: 1

Integration File: rteint.p
 Quant Time: Mar 15 15:14:47 2012
 Quant Method : C:\msdchem\1\METHODS\ALG022812N.M
 Quant Title : EPH GC ALIPHATICS
 QLast Update : Tue Mar 13 22:52:47 2012
 Response via : Initial Calibration
 Integrator: RTE

Volume Inj. :
 Signal Phase :
 Signal Info :



March 16, 2012

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Client Sample ID: BK-1

SAMPLE DATA

Lab Sample ID: 72333-14
Matrix: Solid
Percent Solid: 71
Dilution Factor: 1.3
Collection Date: 03/09/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/14/12
Analysis Date: 03/15/12

EPH ANALYTICAL RESULTS			
RANGE/TARGET ANALYTE	RL	Units	Result
Unadjusted C11-C22 Aromatics	17900	µg/kg	17900
Diesel PAH Analytes	Naphthalene	358 µg/kg	U
	2-Methylnaphthalene	358 µg/kg	U
	Phenanthrene	358 µg/kg	271 J
	Acenaphthene	358 µg/kg	U
Other Target PAH Analytes	Acenaphthylene	358 µg/kg	U
	Fluorene	358 µg/kg	U
	Anthracene	358 µg/kg	U
	Fluoranthene	358 µg/kg	494
	Pyrene	358 µg/kg	441
	Benzo[a]anthracene	358 µg/kg	201 J
	Chrysene	358 µg/kg	276 J
	Benzo[b]fluoranthene	358 µg/kg	345 J
	Benzo[k]fluoranthene	358 µg/kg	U
	Benzo[a]pyrene	358 µg/kg	251 J
	Indeno[1,2,3-cd]pyrene	358 µg/kg	208 J
	Dibenzof[a,h]anthracene	358 µg/kg	U
	Benzo[g,h,i]perylene	358 µg/kg	205 J
C9-C18 Aliphatic Hydrocarbons	17900	µg/kg	U
C19-C36 Aliphatic Hydrocarbons	17900	µg/kg	U
C11-C22 Aromatic Hydrocarbons ^{1,2}	17900	µg/kg	15300
Aliphatic Surrogate % Recovery (1-Chloro-octadecane)			63
Aromatic Surrogate % Recovery (O-Terphenyl)			76
Sample Surrogate Acceptance Range	--	--	40-140%
#1 Fractionation Surrogate % Recovery (2-Fluorobiphenyl)			84
#2 Fractionation Surrogate % Recovery (2-Bromonaphthalene)			83
Fractionation Surrogate Acceptance Range	--	--	40-140%
¹ Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.			
² C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.			
RL = Report Limit			
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank			

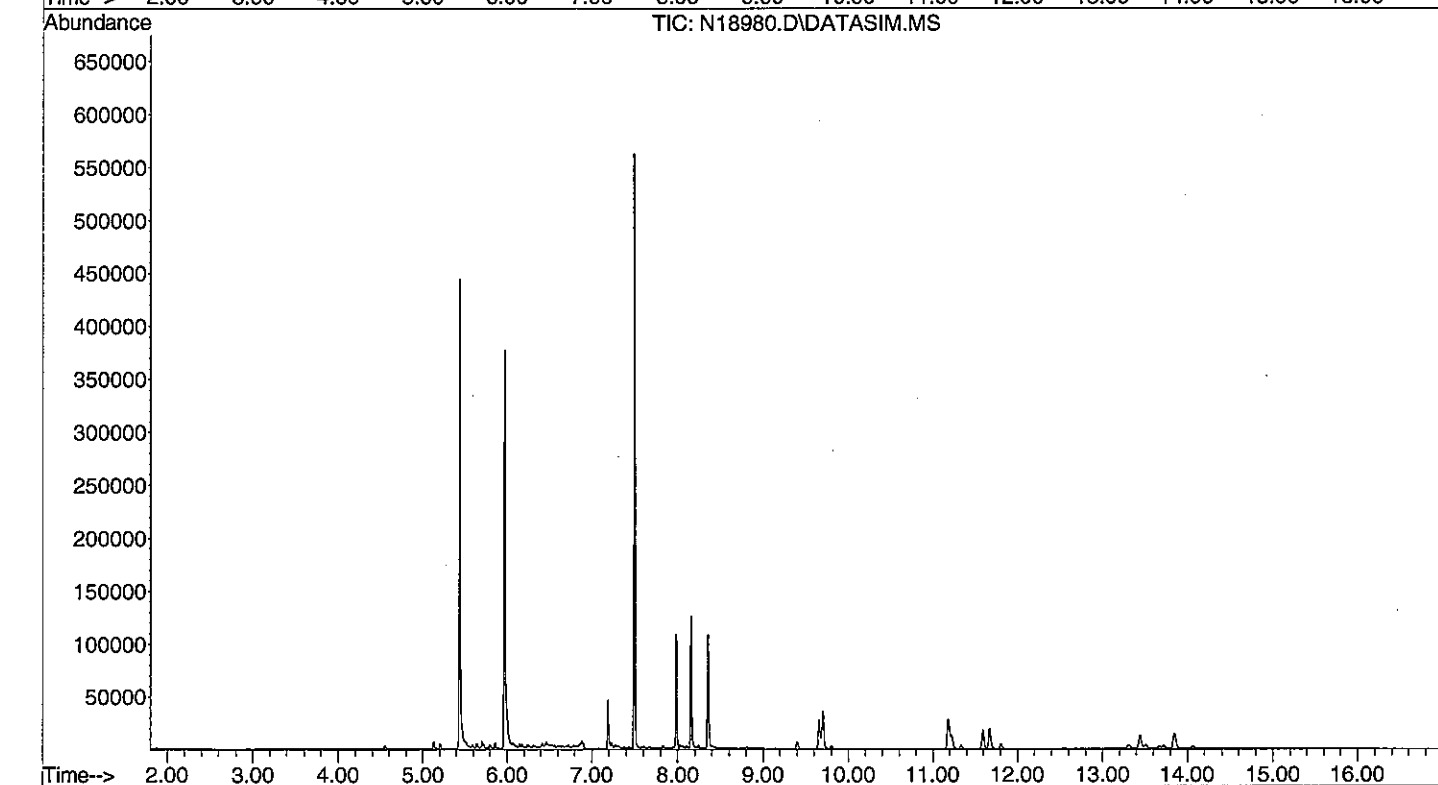
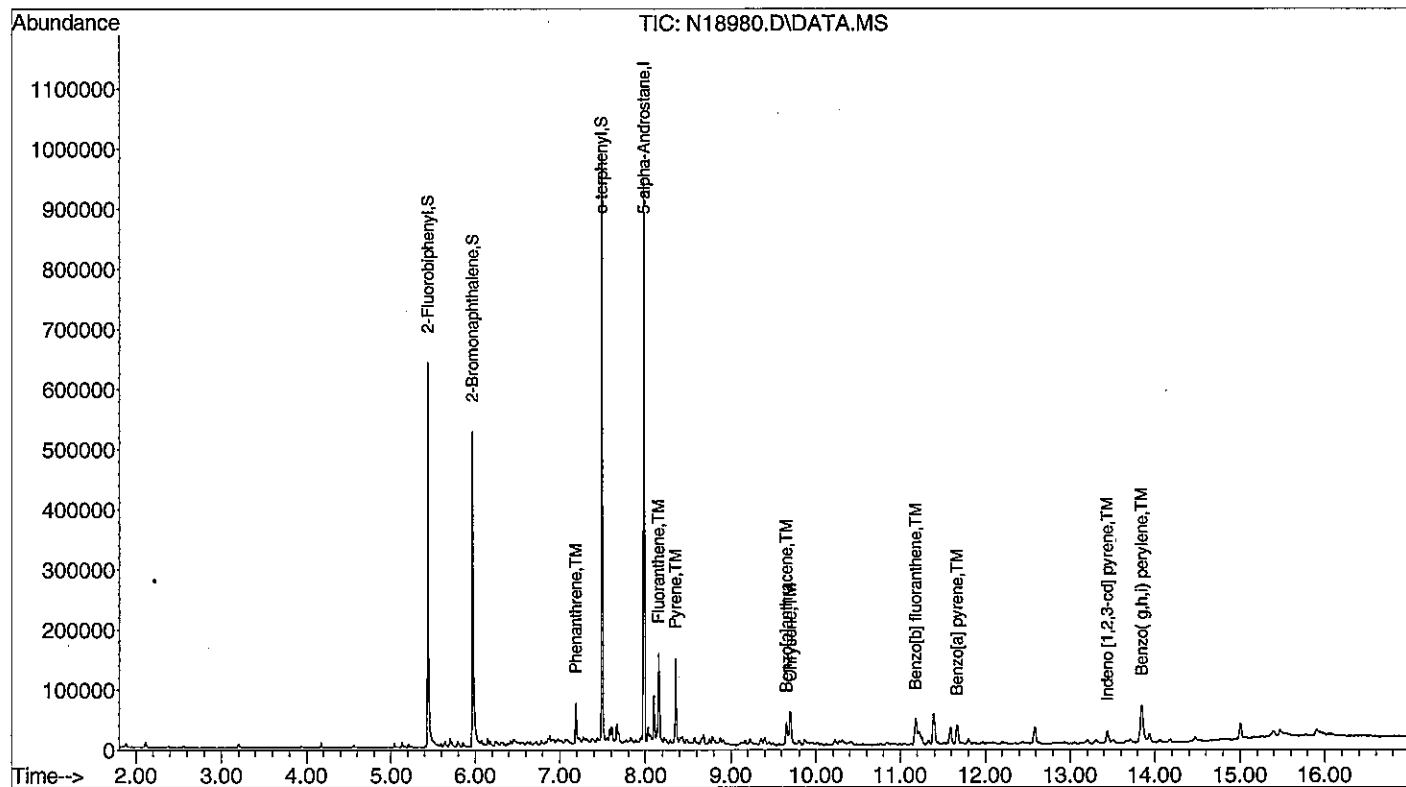
METHODOLOGY MADEP Extractable Petroleum Hydrocarbons (EPH), ORS Division of Environmental Analysis, May 2004
Revision 1.1. Samples were extracted in accordance with SW-846 Method 3545

COMMENTS: EPH analyses utilized the use of a GC/MS system to detect and quantify ranges and target analytes. Samples were received in accordance with method criteria unless noted on the sample receipt checklist.
Results are expressed on a dry weight basis.

SIGNATURE: 

Data Path : C:\msdchem\1\DATA\031412-N\
Data File : N18980.D
Acq On : 15 Mar 2012 9:12 am
Operator : AR
Sample : 72333-14
Misc : SOIL, ARO
ALS Vial : 32 Sample Multiplier: 1

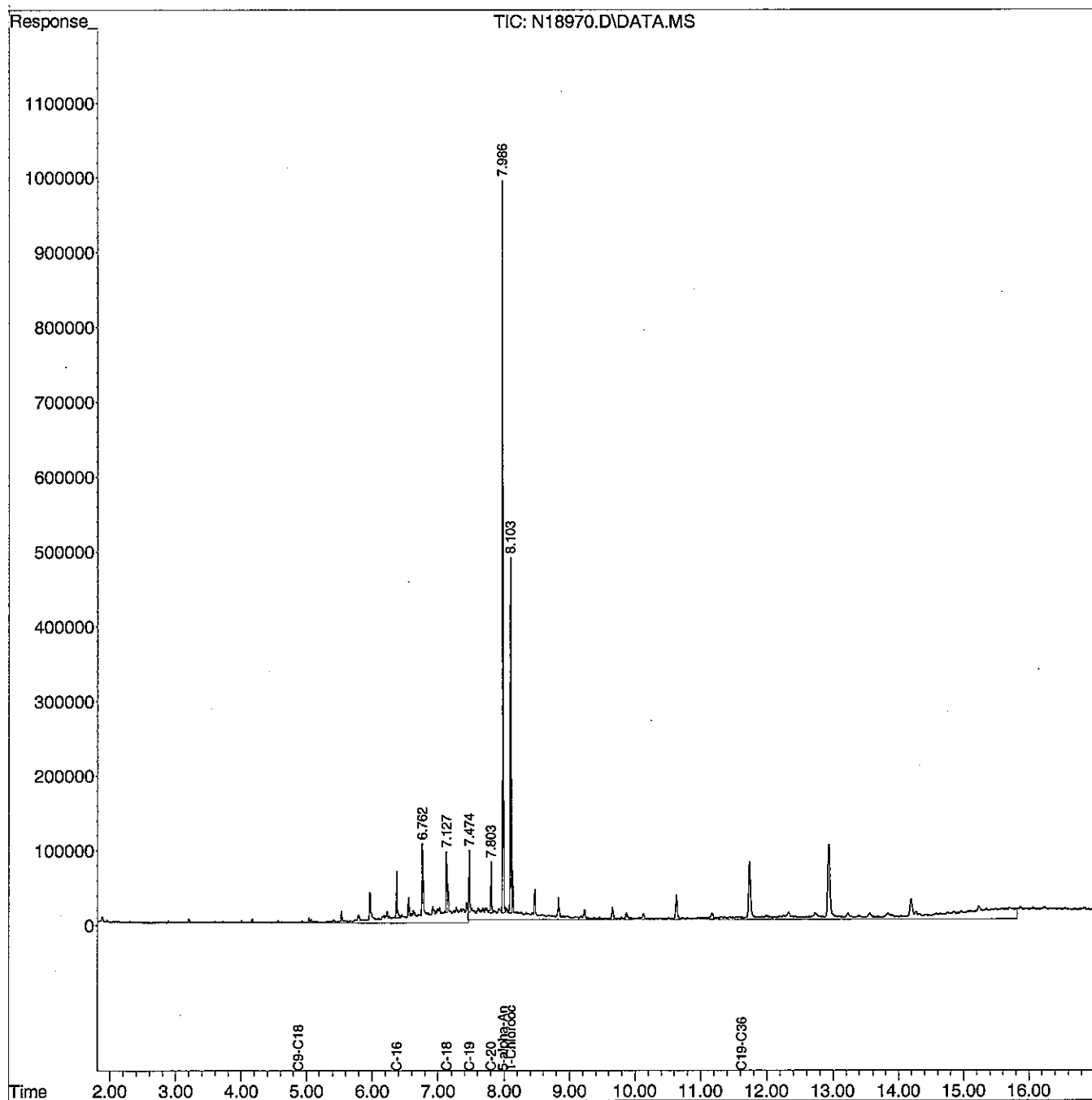
Quant Time: Mar 15 15:33:24 2012
Quant Method : C:\msdchem\1\METHODS\ARM031312N.M
Quant Title : EPH MS AROMATICS
QLast Update : Wed Mar 14 23:24:04 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\031412-N\
Data File : N18970.D
Signal(s) : DATA.MS
Acq On : 15 Mar 2012 5:46 am
Operator : AR
Sample : 72333-14
Misc : SOIL,ALI
ALS Vial : 22 Sample Multiplier: 1

Integration File: rteint.p
Quant Time: Mar 15 14:33:04 2012
Quant Method : C:\msdchem\1\METHODS\ALG022812N.M
Quant Title : EPH GC ALIPHATICS
QLast Update : Tue Mar 13 22:52:47 2012
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal Phase :
Signal Info :



EPH QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:EPHQC.doc

EPH ALIPHATICS
SOIL LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG: 72333
Non-spiked sample: B031412EASE
Spike: L031412EASE
Spike duplicate: LD031412EASE

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
C-9	3333	3333	30	140	25	0	1421	43		1512	45		6	
C-10	3333	3333	40	140	25	0	1693	51		1767	53		4	
C-12	3333	3333	40	140	25	0	1780	53		1880	56		5	
C-14	3333	3333	40	140	25	0	1961	59		2039	61		4	
C-16	3333	3333	40	140	25	0	2059	62		2171	65		5	
C-18	3333	3333	40	140	25	0	2155	65		2267	68		5	
C-19	3333	3333	40	140	25	0	2123	64		2229	67		5	
C-20	3333	3333	40	140	25	0	2233	67		2327	70		4	
C-22	3333	3333	40	140	25	0	2252	68		2300	69		2	
C-24	3333	3333	40	140	25	0	2251	68		2349	70		4	
C-26	3333	3333	40	140	25	0	2275	68		2361	71		4	
C-28	3333	3333	40	140	25	0	2215	66		2337	70		5	
C-30	3333	3333	40	140	25	0	2236	67		2360	71		5	
C-36	3333	3333	40	140	25	0	2067	62		2176	65		5	
C9-C18 Aliphatics	20000	20000	40	140	25	0	11069	55		11635	58		5	
C19-C36 Aliphatics	26667	26667	40	140	25	0	17651	66		18440	69		4	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

EPH AROMATICS
SOIL LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
PERCENT RECOVERY

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG: 72333
Non-spiked sample: B031412EASE
Spike: L031412EASE
Spike duplicate: LD031412EASE

COMPOUND	LCS SPIKE	LCSD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP		SPIKE DUP		RPD	
	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	% REC	#	RPD	#
Naphthalene	3333	3333	40	140	30	0	2247	67		2298	69		2	
2-Methylnaphthalene	3333	3333	40	140	30	0	2432	73		2439	73		0	
Acenaphthylene	3333	3333	40	140	30	0	2582	77		2563	77		1	
Acenaphthene	3333	3333	40	140	30	0	2550	77		2494	75		2	
Fluorene	3333	3333	40	140	30	0	2689	81		2654	80		1	
Phenanthrene	3333	3333	40	140	30	0	3013	90		2847	85		6	
Anthracene	3333	3333	40	140	30	0	2925	88		2703	81		8	
Fluoranthene	3333	3333	40	140	30	0	3076	92		2848	85		8	
Pyrene	3333	3333	40	140	30	0	3049	91		2803	84		8	
Benzo[a]anthracene	3333	3333	40	140	30	0	3233	97		2924	88		10	
Chrysene	3333	3333	40	140	30	0	3058	92		2752	83		11	
Benzo[b] fluoranthene	3333	3333	40	140	30	0	3123	94		2897	87		8	
Benzo[k] fluoranthene	3333	3333	40	140	30	0	3199	96		2850	86		12	
Benzo[a] pyrene	3333	3333	40	140	30	0	3271	98		2966	89		10	
Indeno [1,2,3-cd] pyrene	3333	3333	40	140	30	0	3239	97		2973	89		9	
Dibenz [a,h] anthracene	3333	3333	40	140	30	0	3189	96		2925	88		9	
Benzo[g,h,i] perylene	3333	3333	40	140	30	0	3161	95		2927	88		8	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

EPH AROMATIC BREAKTHROUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N
GC Column: ZB-5ms
Column ID: 0.25 mm

SDG: 72333
Aliphatic LCS: L031412EASE
Aromatic LCS: L031412EASE

COMPOUND	LOWER LIMIT	UPPER LIMIT	ALIPHATIC RESULT (ug/mL)	AROMATIC RESULT (ug/mL)	% BREAKTHROUGH	#
Naphthalene	0	5	0.00	16.9	0.0	
2-Methylnaphthalene	0	5	0.00	18.2	0.0	

Column to be used to flag breakthrough values outside of QC limits
* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

EPH AROMATIC BREAKTHROUGH REPORT
OF ALIPHATIC LABORATORY CONTROL SAMPLE

Instrument ID: N

SDG: 72333

GC Column: ZB-5ms

Aliphatic LCS: LD031412EASE

Column ID: 0.25 mm

Aromatic LCS: LD031412EASE

COMPOUND	LOWER	UPPER	ALIPHATIC	AROMATIC	% BREAKTHROUGH	
	LIMIT	LIMIT	RESULT (ug/mL)	RESULT (ug/mL)		#
Naphthalene	0	5	0.00	17.2	0.0	
2-Methylnaphthalene	0	5	0.00	18.3	0.0	

Column to be used to flag breakthrough values outside of QC limits

* Values outside QC limits

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery

Comments: _____

PCB DATA SUMMARIES

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID
Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: Lab QC

Lab Sample ID: B031312PSOX
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/13/12
Analysis Date: 03/14/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	69	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

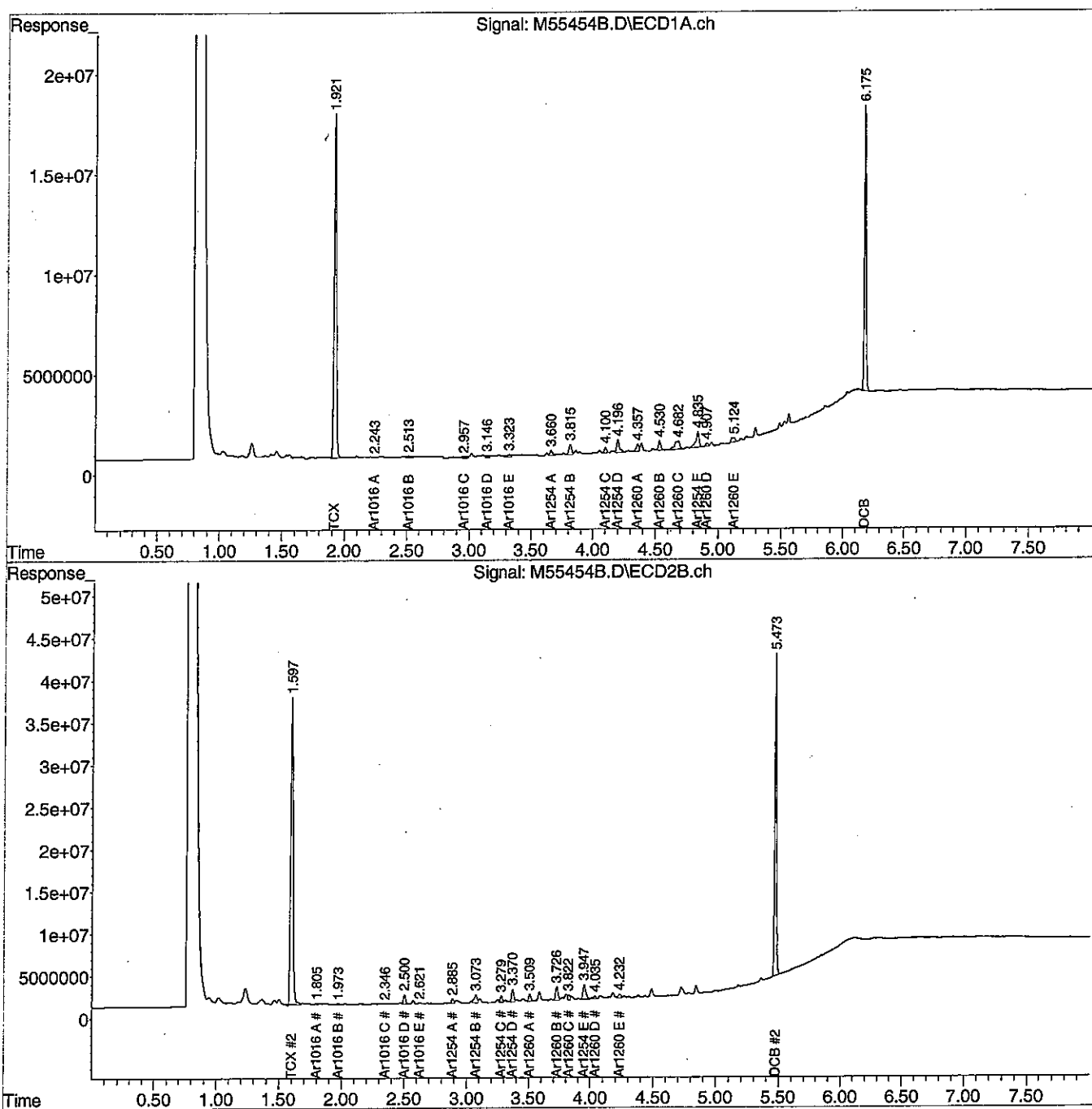
Authorized signature



Data Path : C:\msdchem\1\DATA\031412-M\
Data File : M55454B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2012 3:01 pm
Operator : JK
Sample : B031312PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 15 09:17:12 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 07 11:55:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: Lab QC

Lab Sample ID: B031412PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/14/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS		
COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	77	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

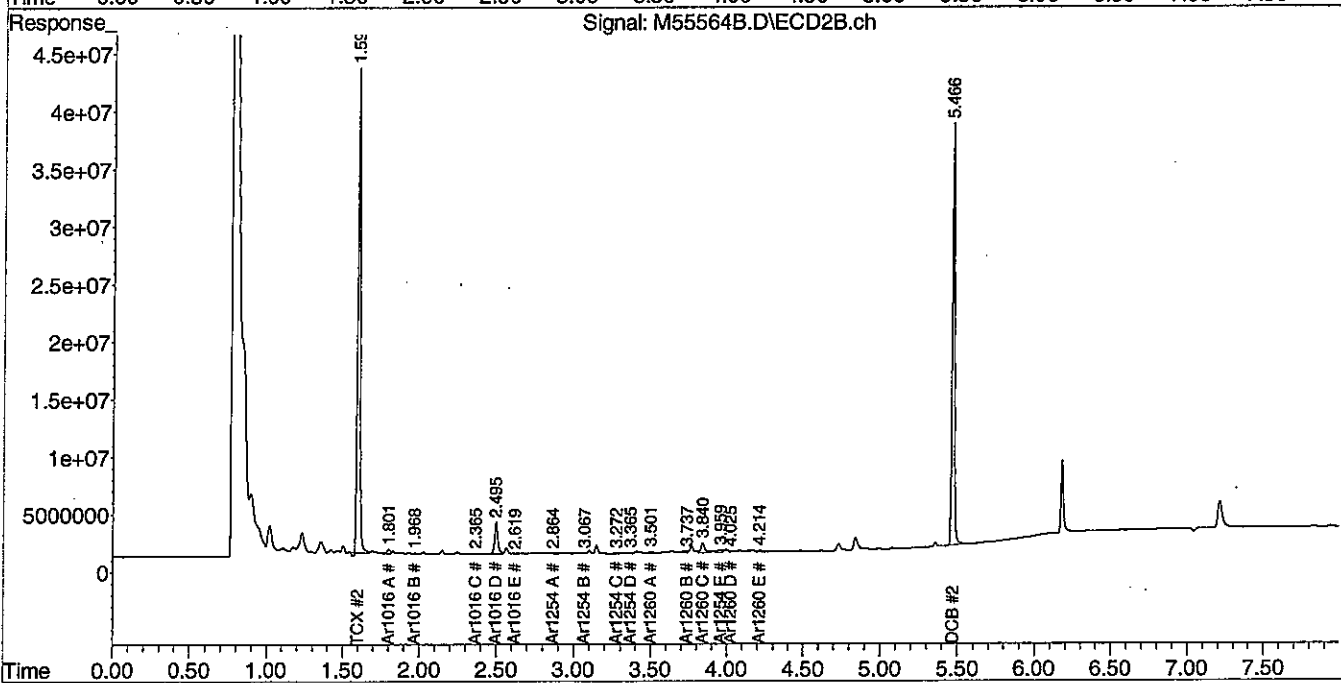
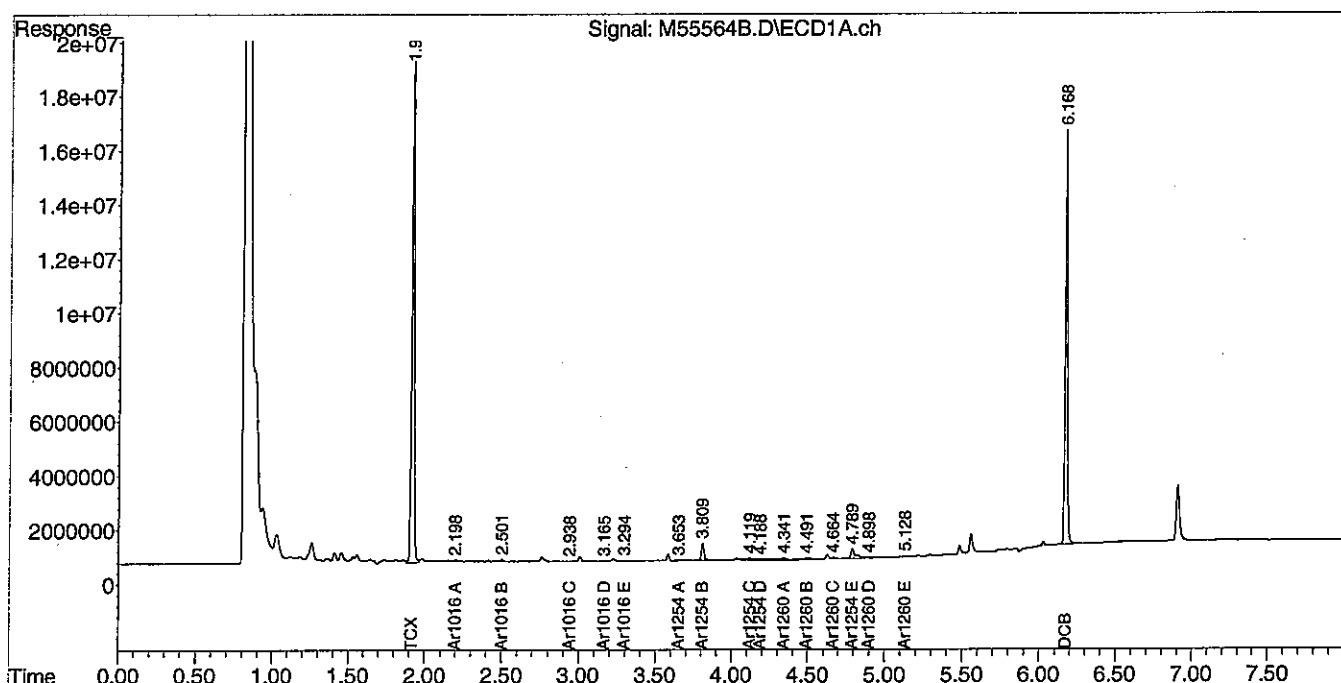
Authorized signature



Data Path : C:\msdchem\1\DATA\031612-M\
Data File : M55564B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2012 11:35 am
Operator : JK
Sample : B031412PSOX,RR2,,A/C
Misc : SOIL
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 19 14:28:24 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 07 11:55:20 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0.25 um Signal #2 Info : 30 m x 0.25mm x 0.25 um



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March 26, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: Lab QC

Lab Sample ID: B032012PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/20/12
Analysis Date: 03/22/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	75	%
Decachlorobiphenyl	100	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

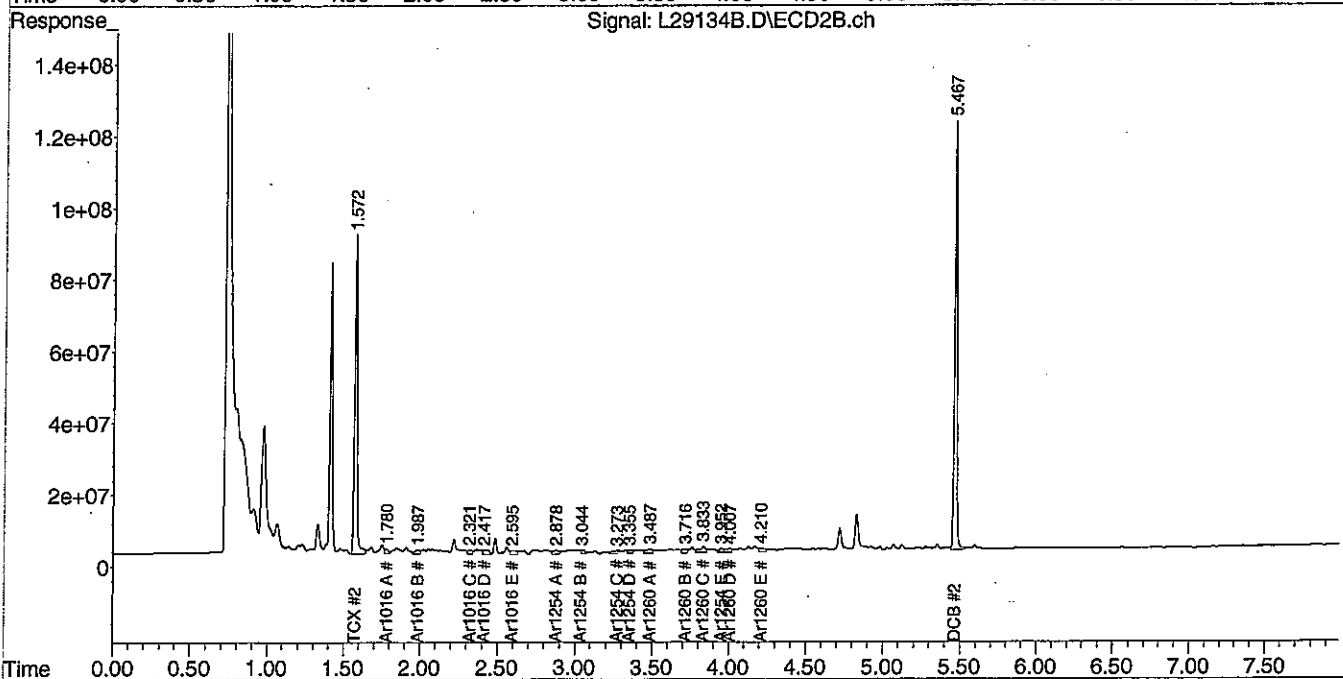
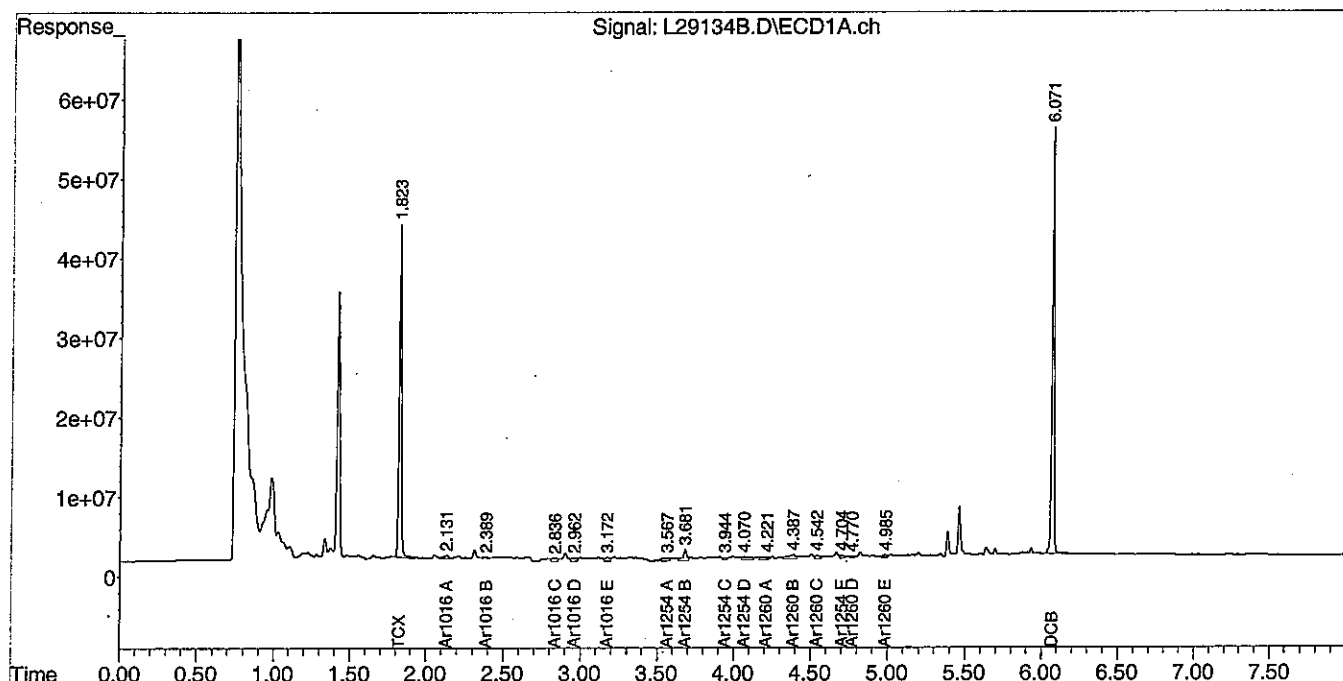
METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Data Path : C:\msdchem\1\DATA\032112-L\
 Data File : L29134B.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Mar 2012 5:22 pm
 Operator : JK
 Sample : B032012PSOX,RR,,A/C
 Misc : SOIL
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 26 14:08:40 2012
 Quant Method : C:\msdchem\1\METHODS\PCB032112.M
 Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
 QLast Update : Thu Mar 22 10:38:07 2012
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 uL
 Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
 Signal #1 Info : 30 m x 0.25mm x 0.25 um Signal #2 Info : 30 m x 0.25mm x 0.25 um



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March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: PCB-201@1"

Lab Sample ID: 72333-1
Matrix: Solid
Percent Solid: 99
Dilution Factor: 4.8
Collection Date: 03/08/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS		
COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	158	U
PCB-1221	158	U
PCB-1232	158	U
PCB-1242	158	U
PCB-1248	158	U
PCB-1254	158	1790
PCB-1260	158	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	66	%
Decachlorobiphenyl	78	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M	SDG: 72333
GC Column #1: STX-CLPesticides I	Sample: 72333-1,1:5,,A/C
Column ID: 0.25 mm	Data File: M55565.D
GC Column #2: STX-CLPesticides II	Dilution Factor: 4.8
Column ID: 0.25 mm	

COMPOUND	Column #1	Column #2	RPD		#
	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)			
PCB 1254	1784	1792	0.4		

Column to be used to flag RPD values greater than QC limit of 40%

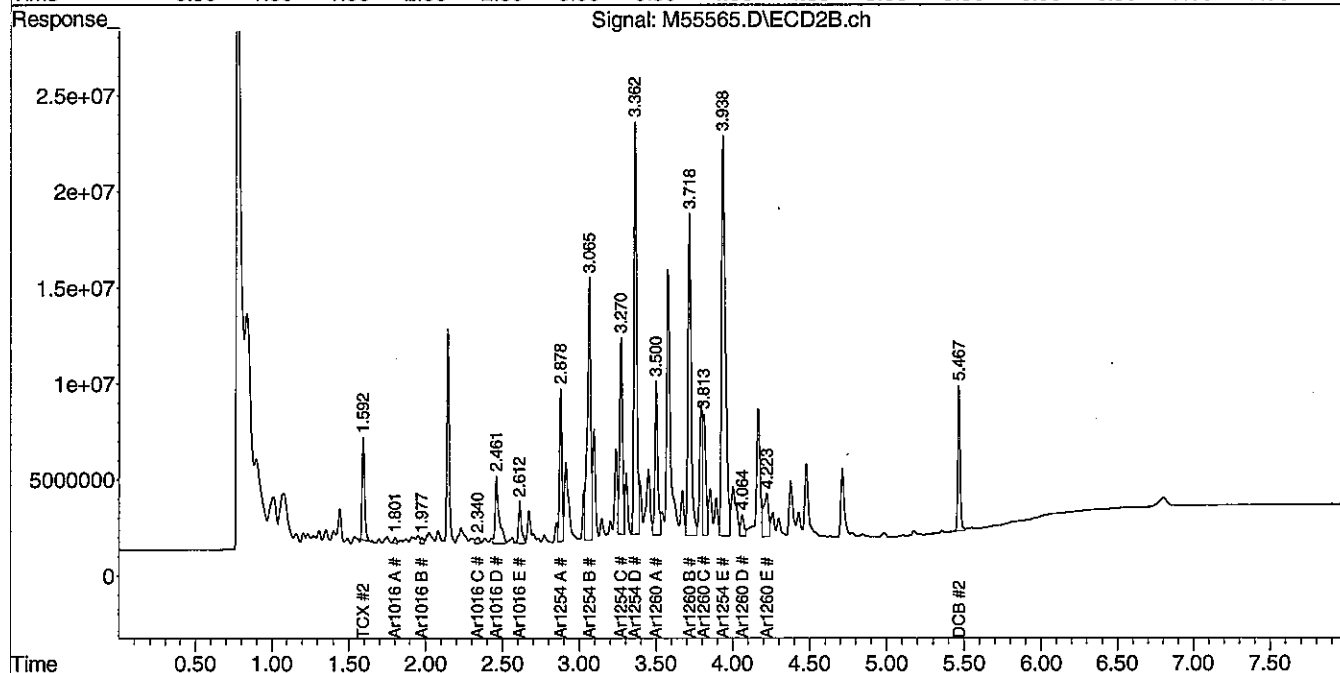
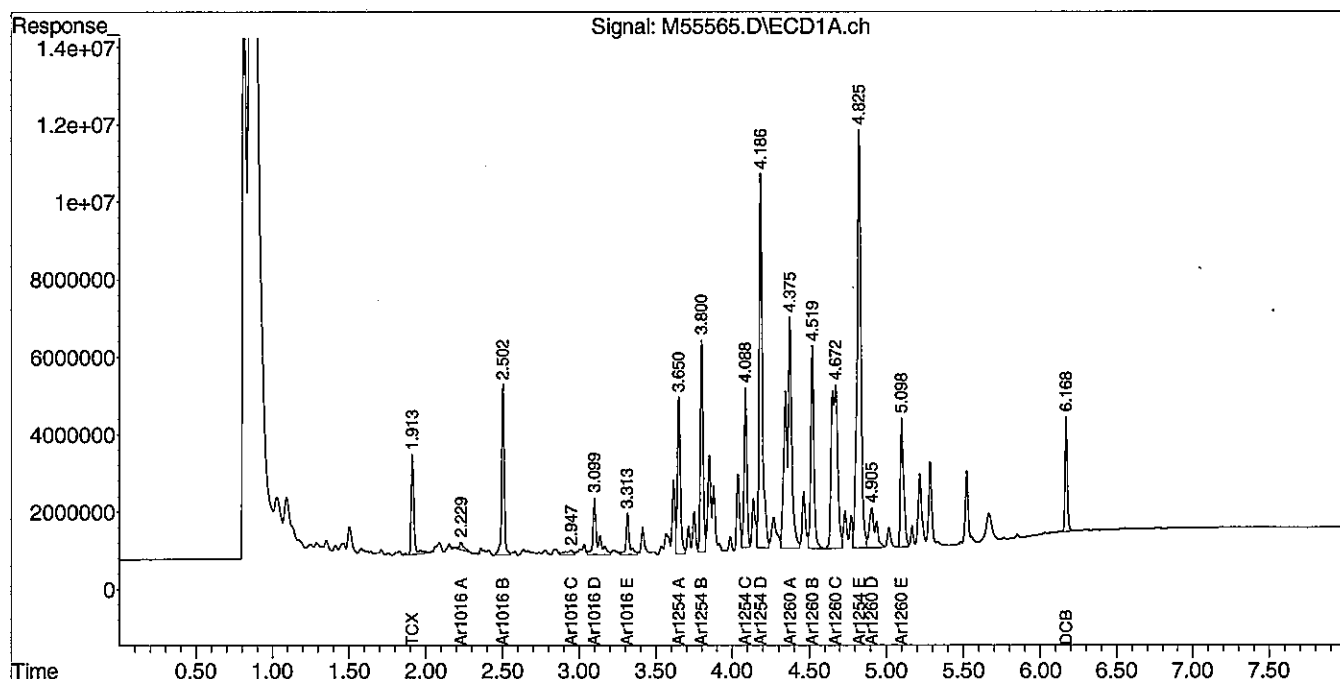
* Values outside QC limits

Comments: _____

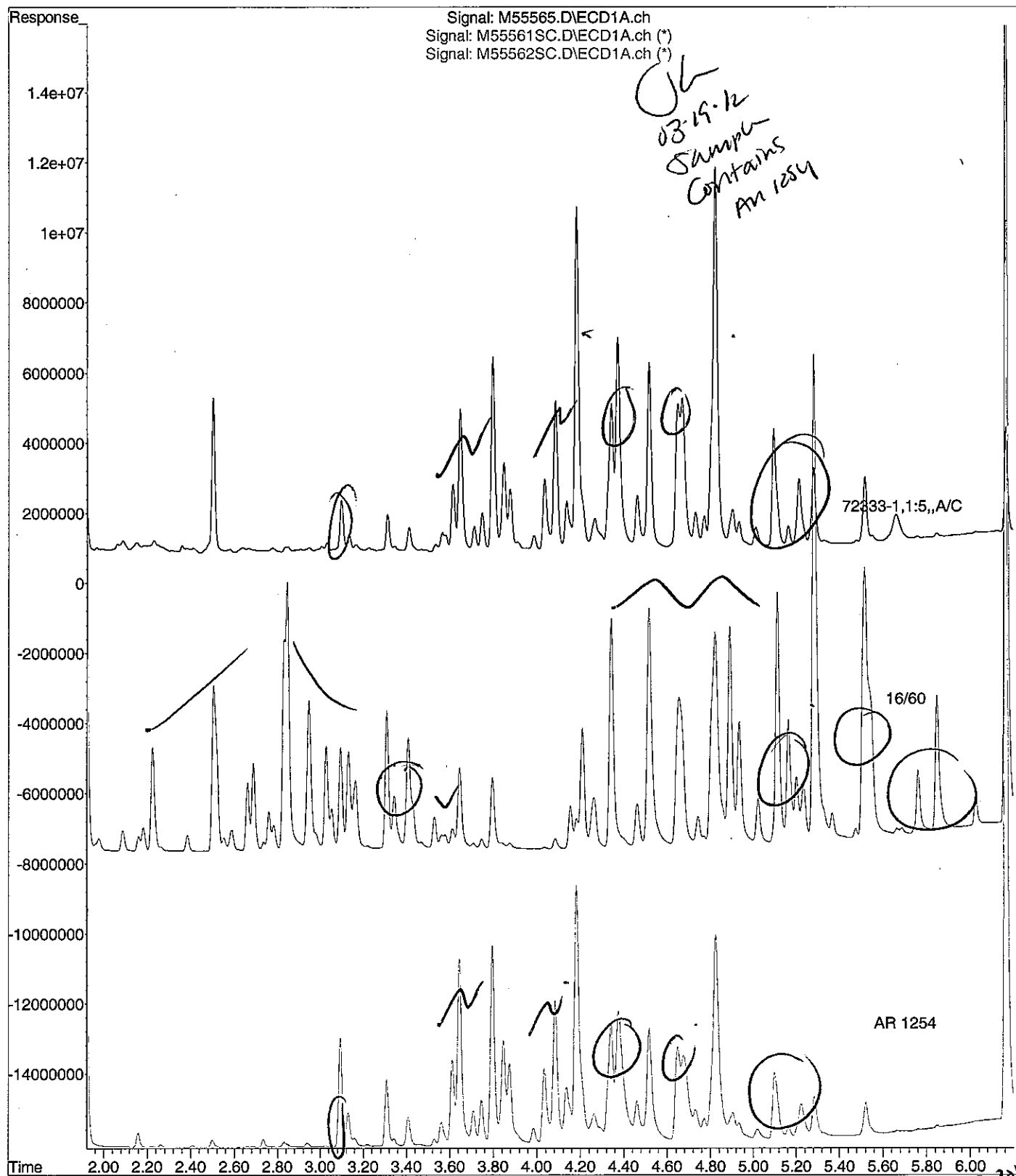
Data Path : C:\msdchem\1\DATA\031612-M\
 Data File : M55565.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Mar 2012 11:46 am
 Operator : JK
 Sample : 72333-1,1:5,,A/C
 Misc : SOIL
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Mar 19 14:28:59 2012
 Quant Method : C:\msdchem\1\METHODS\PCB012712.M
 Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
 QLast Update : Wed Mar 07 11:55:20 2012
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 uL
 Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
 Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\031612-M\M55565.D
Operator : JK
Acquired : 16 Mar 2012 11:46 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72333-1,1:5,,A/C
Misc Info : SOIL
Vial Number: 9



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March 26, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: PCB-201@2"

Lab Sample ID: 72333-2 RX
Matrix: Solid
Percent Solid: 99
Dilution Factor: 1.0
Collection Date: 03/08/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/20/12
Analysis Date: 03/22/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	215
PCB-1260	33	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	66	%
Decachlorobiphenyl	65	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72333
Sample: 72333-2,RX,,A/C
Data File: L29138.D
Dilution Factor: 1.0

COMPOUND	Column #1	Column #2	RPD		#
	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)			
PCB 1254	212	215	1.4		

Column to be used to flag RPD values greater than QC limit of 40%

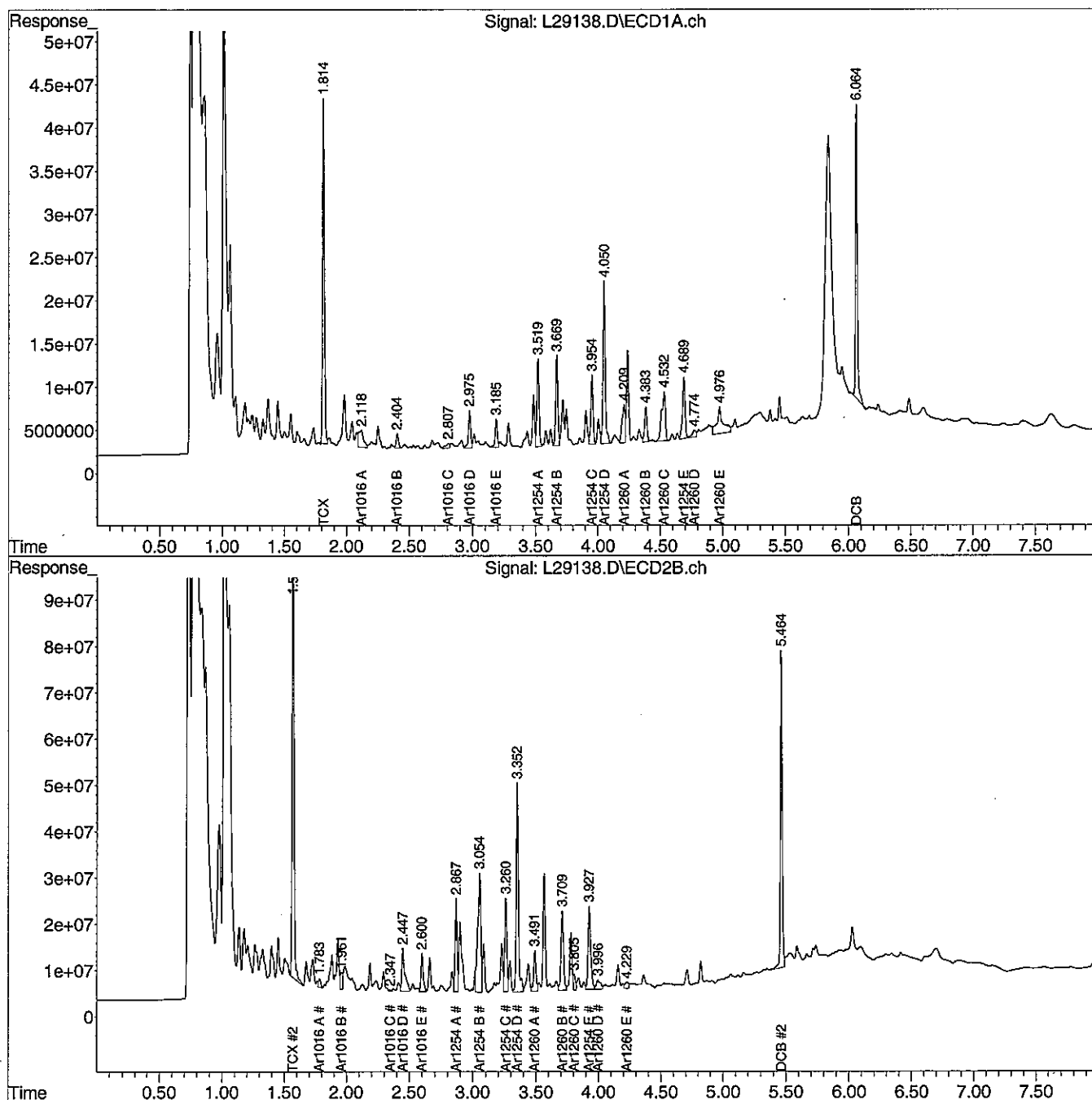
* Values outside QC limits

Comments: _____

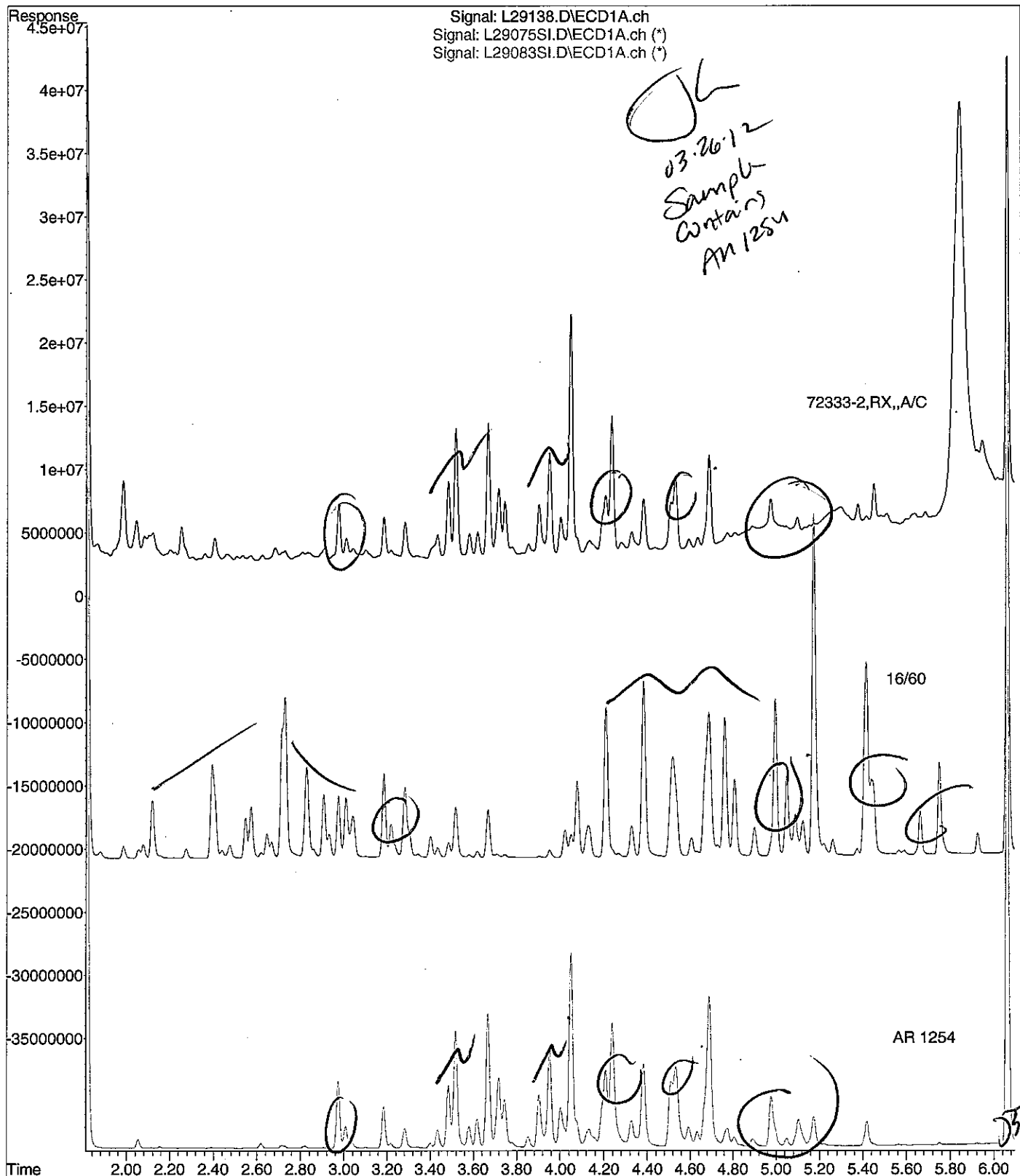
Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29138.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 6:03 pm
Operator : JK
Sample : 72333-2,RX,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 14:12:54 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\032112-L\L29138.D
Operator : JK
Acquired : 22 Mar 2012 6:03 pm using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72333-2,RX,,A/C
Misc Info : SOIL
Vial Number: 10



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March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: PCB-202@1"

Lab Sample ID: 72333-3
Matrix: Solid
Percent Solid: 98
Dilution Factor: 1.0
Collection Date: 03/08/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS		
COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	47	%
Decachlorobiphenyl	56	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

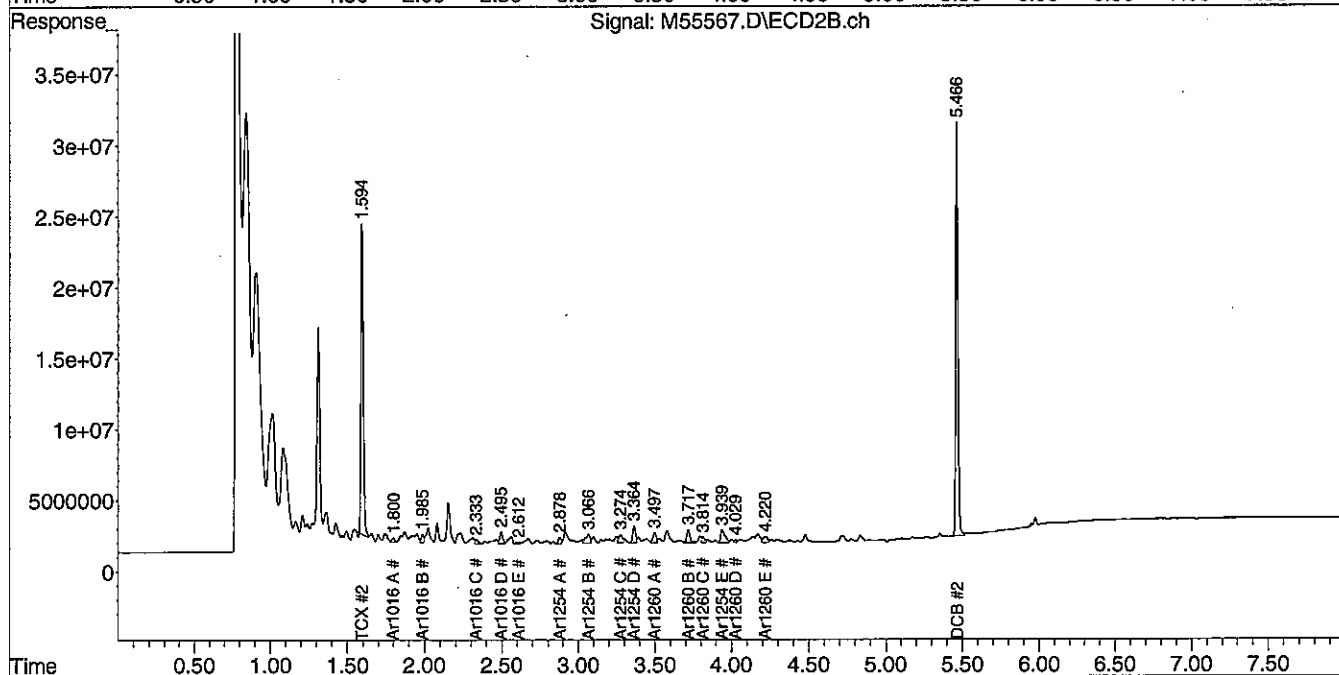
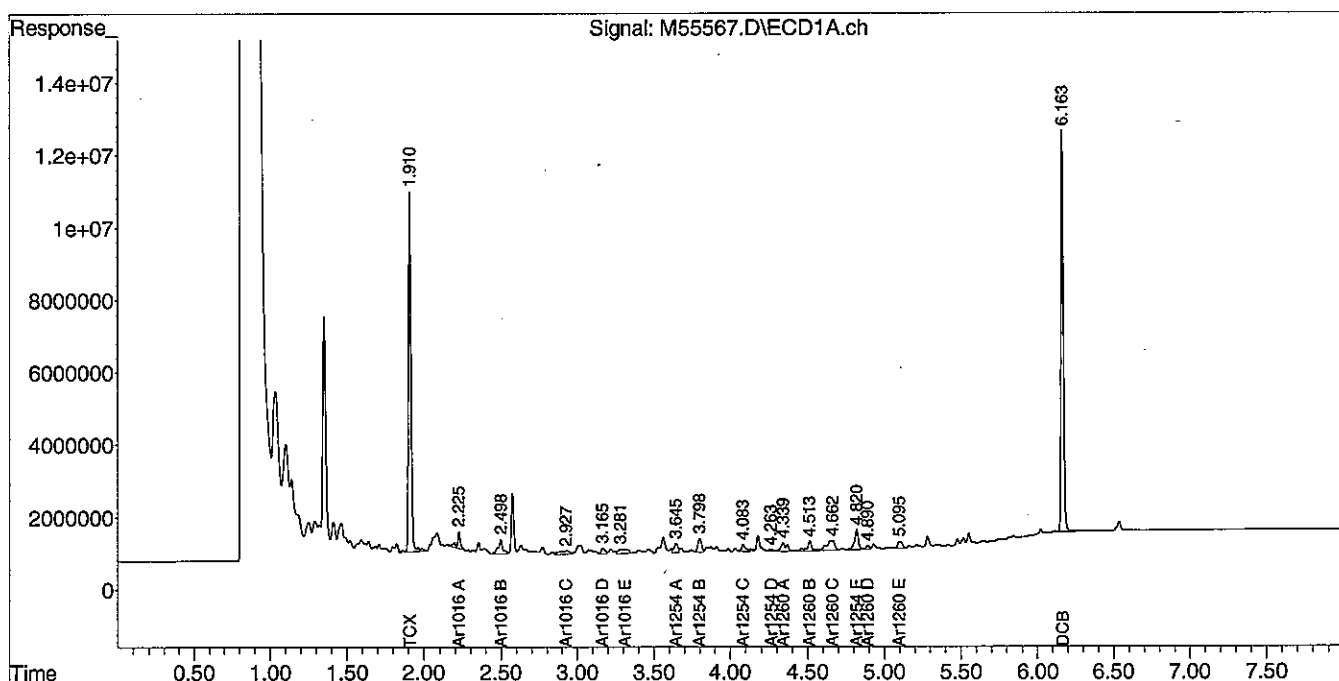
METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Data Path : C:\msdchem\1\DATA\031612-M\
 Data File : M55567.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Mar 2012 12:07 pm
 Operator : JK
 Sample : 72333-3,,A/C
 Misc : SOIL
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Mar 19 14:32:01 2012
 Quant Method : C:\msdchem\1\METHODS\PCB012712.M
 Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
 QLast Update : Wed Mar 07 11:55:20 2012
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 uL
 Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
 Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



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March 26, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: PCB-202@2"

Lab Sample ID: 72333-4 RX
Matrix: Solid
Percent Solid: 98
Dilution Factor: 3.7
Collection Date: 03/08/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/20/12
Analysis Date: 03/22/12

PCB ANALYTICAL RESULTS

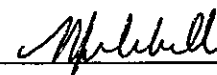
COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	122	U
PCB-1221	122	U
PCB-1232	122	U
PCB-1242	122	U
PCB-1248	122	U
PCB-1254	122	U
PCB-1260	122	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	50	%
Decachlorobiphenyl	53	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

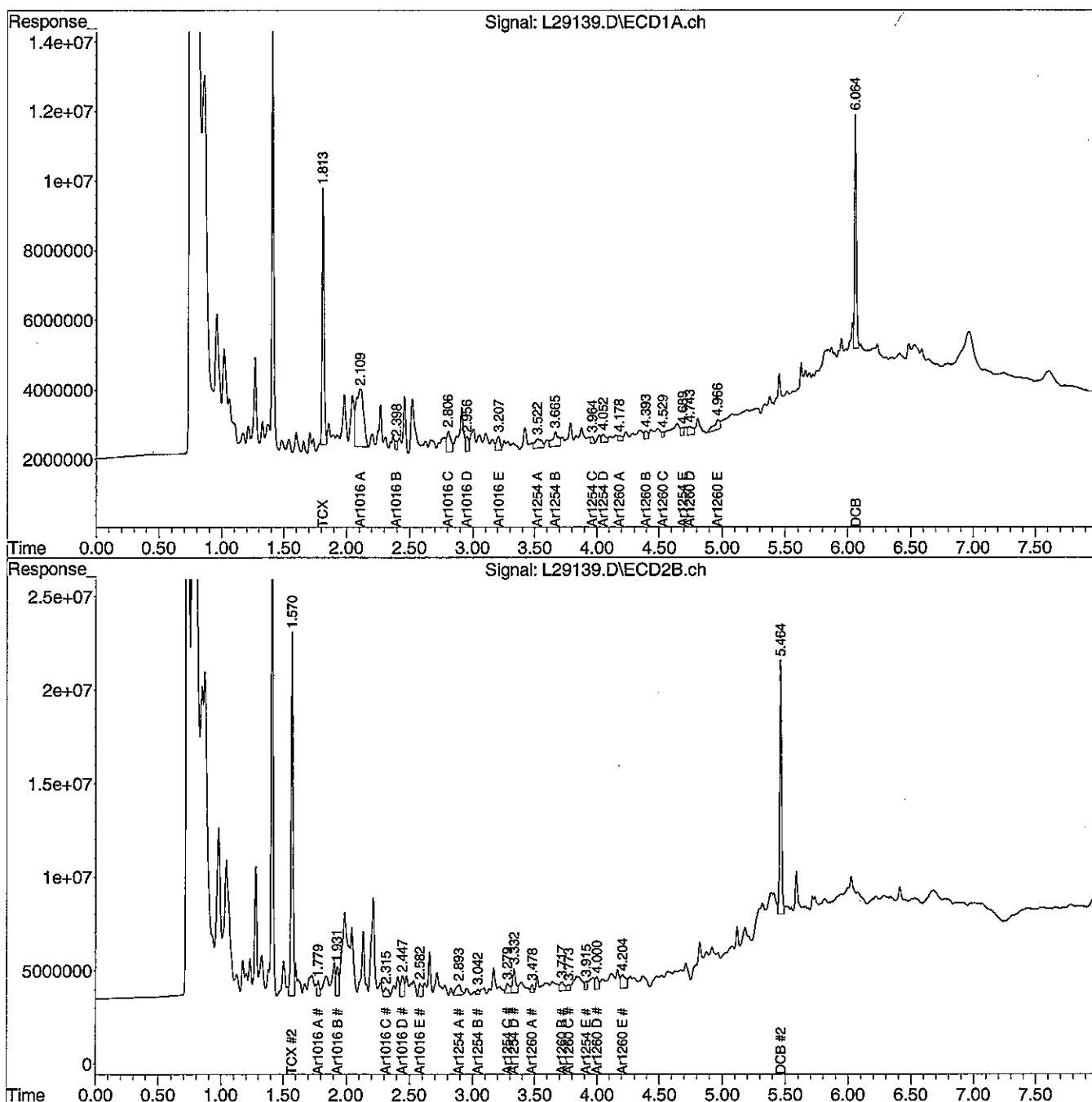
Authorized signature



Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29139.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 6:14 pm
Operator : JK
Sample : 72333-4,RX,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 14:14:42 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0.25 um Signal #2 Info : 30 m x 0.25mm x 0.25 um



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March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: PCB-203@1"

Lab Sample ID: 72333-5
Matrix: Solid
Percent Solid: 99
Dilution Factor: 10
Collection Date: 03/08/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	5780
PCB-1260	330	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	93	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M	SDG: 72333
GC Column #1: STX-CLPesticides I	Sample: 72333-5,1:10,,A/C
Column ID: 0.25 mm	Data File: M55569.D
GC Column #2: STX-CLPesticides II	Dilution Factor: 9.9
Column ID: 0.25 mm	

Column #1		Column #2		RPD	#
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)			
PCB 1254	5312	5779		8.4	

Column to be used to flag RPD values greater than QC limit of 40%

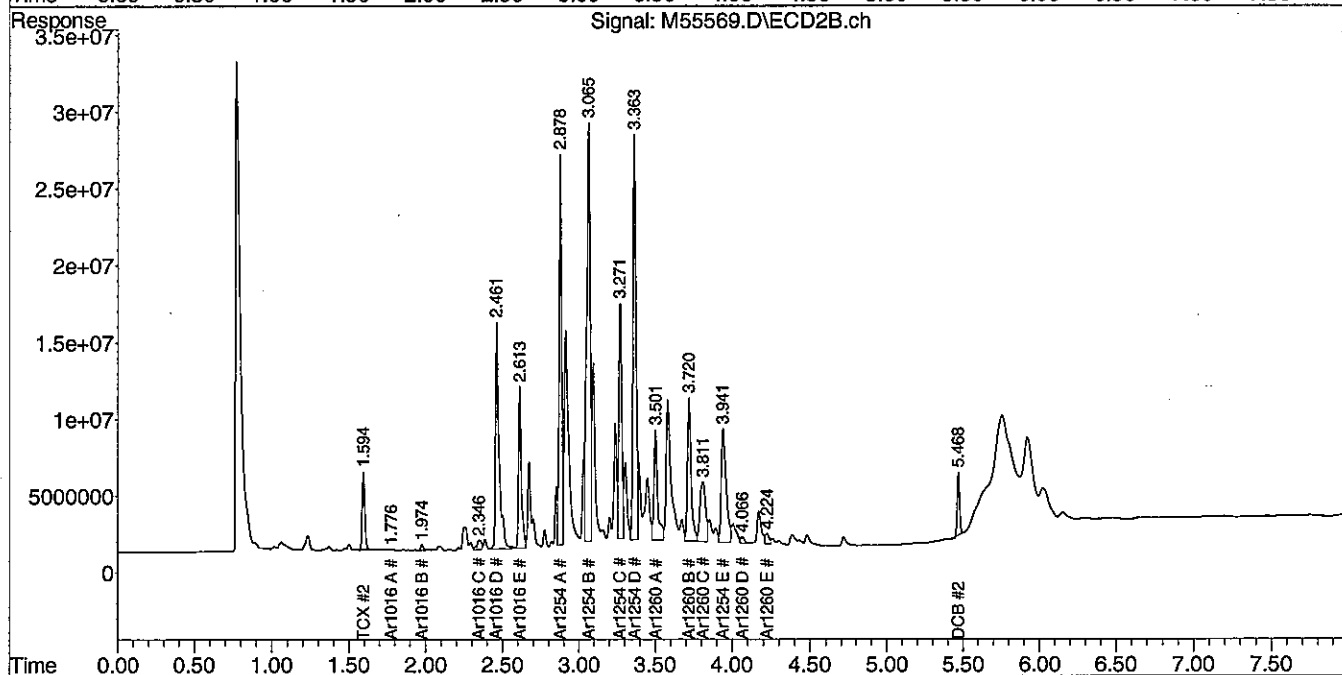
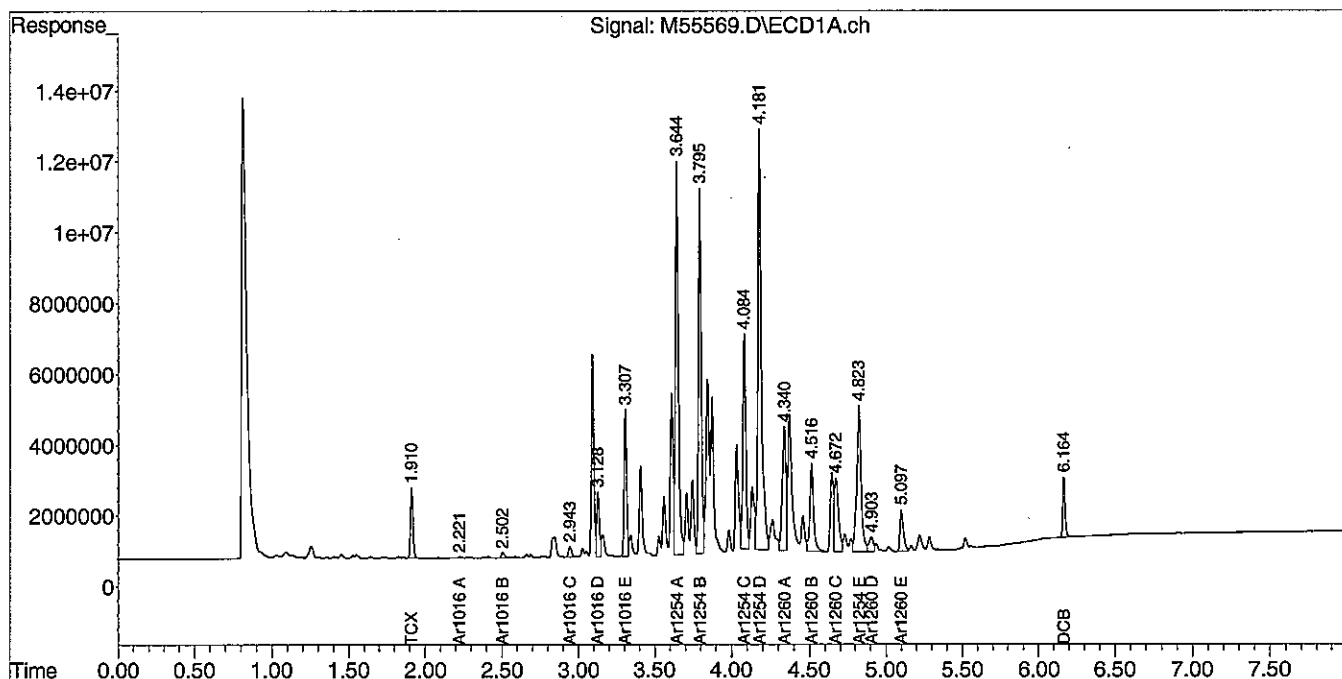
* Values outside QC limits

Comments: _____

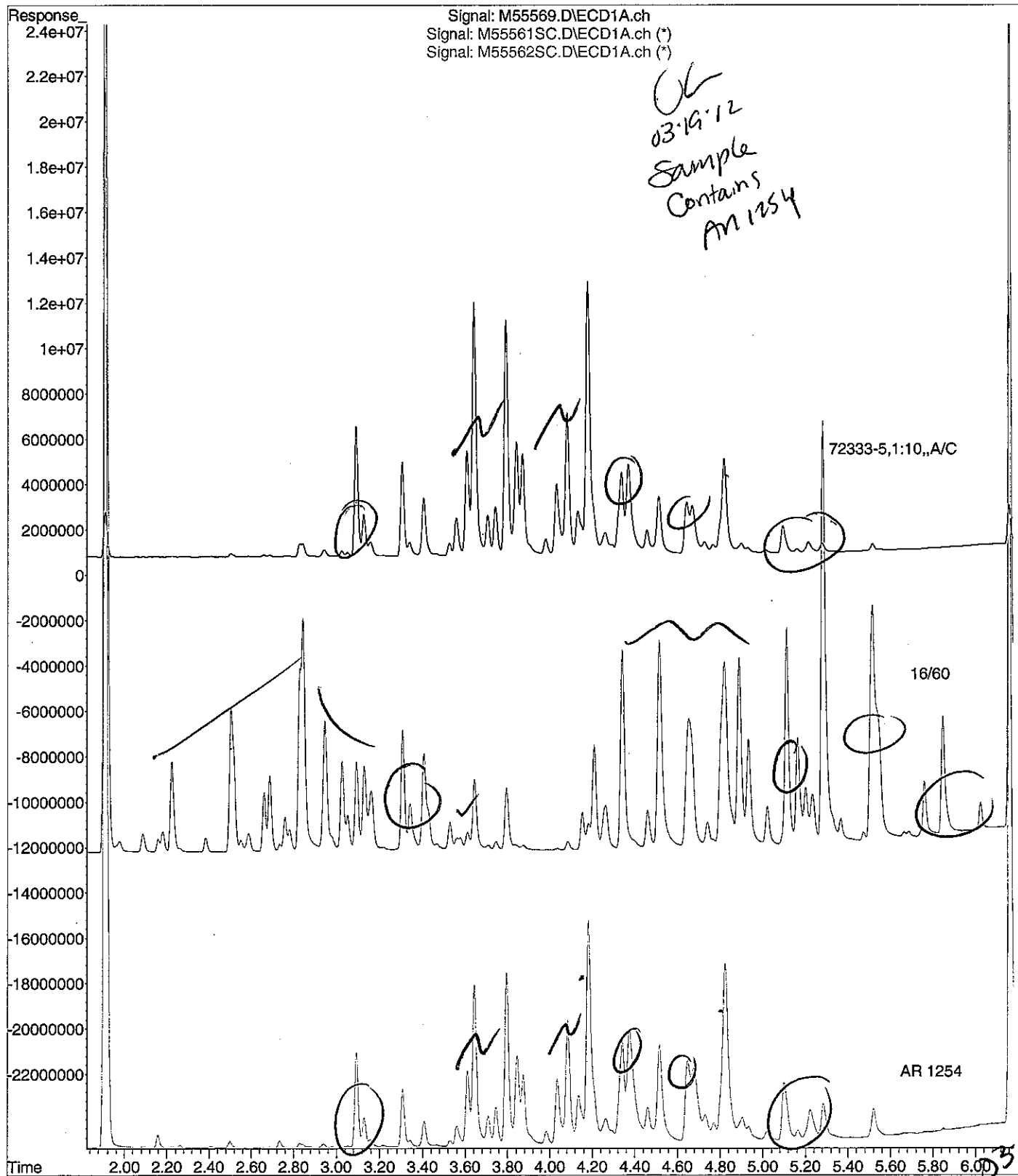
Data Path : C:\msdchem\1\DATA\031612-M\
Data File : M55569.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2012 12:27 pm
Operator : JK
Sample : 72333-5,1:10,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 19 14:33:30 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 07 11:55:20 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\031612-M\M55569.D
Operator : JK
Acquired : 16 Mar 2012 12:27 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72333-5,1:10,,A/C
Misc Info : SOIL
Vial Number: 13



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March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: PCB-203@2"

Lab Sample ID: 72333-6
Matrix: Solid
Percent Solid: 99
Dilution Factor: 1.9
Collection Date: 03/08/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	63	U
PCB-1221	63	U
PCB-1232	63	U
PCB-1242	63	U
PCB-1248	63	U
PCB-1254	63	1330
PCB-1260	63	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	104	%
Decachlorobiphenyl	92	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72333
Sample: 72333-6,1:2,,A/C
Data File: M55570.D
Dilution Factor: 1.9

COMPOUND	Column #1	Column #2		
	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	1232	1331	7.7	

Column to be used to flag RPD values greater than QC limit of 40%

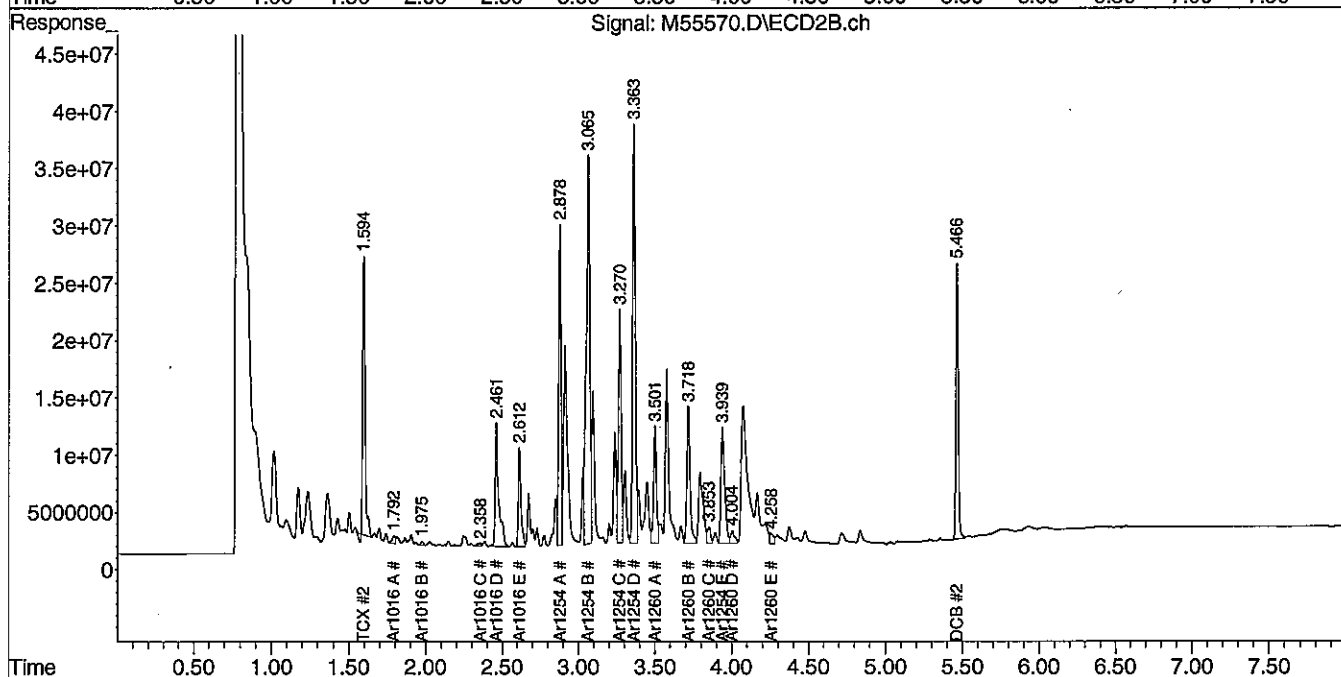
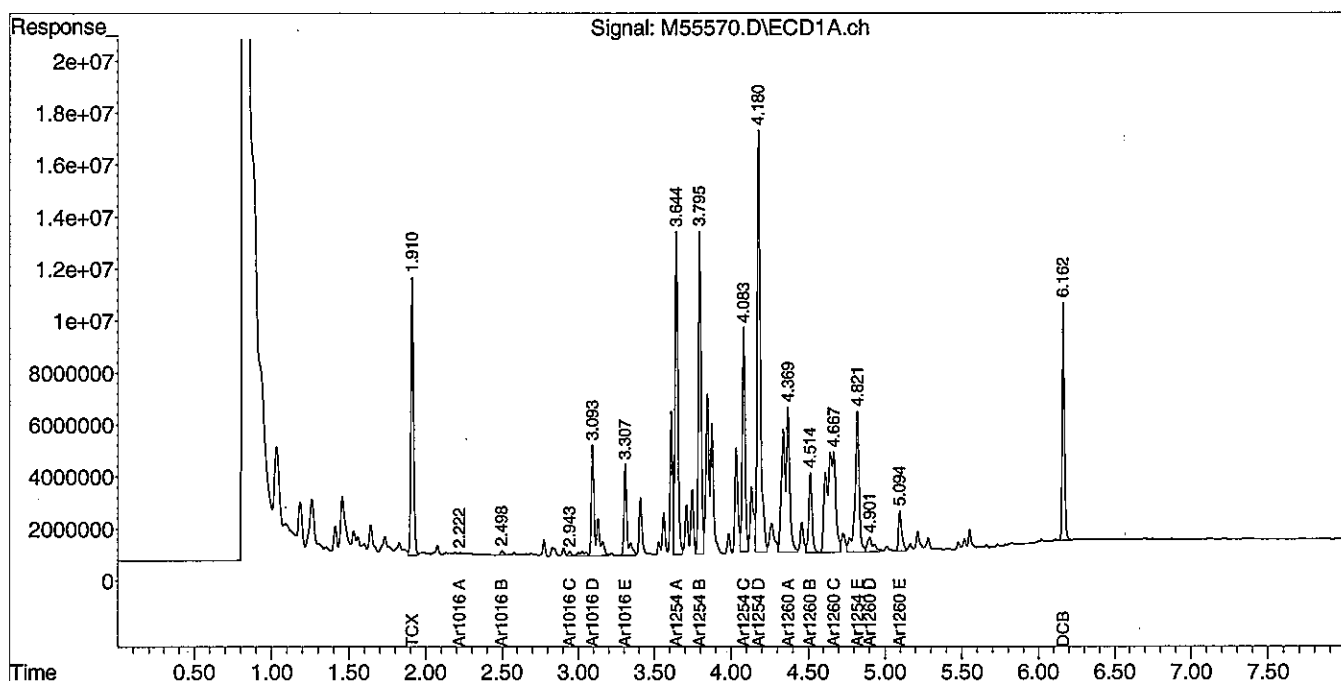
* Values outside QC limits

Comments: _____

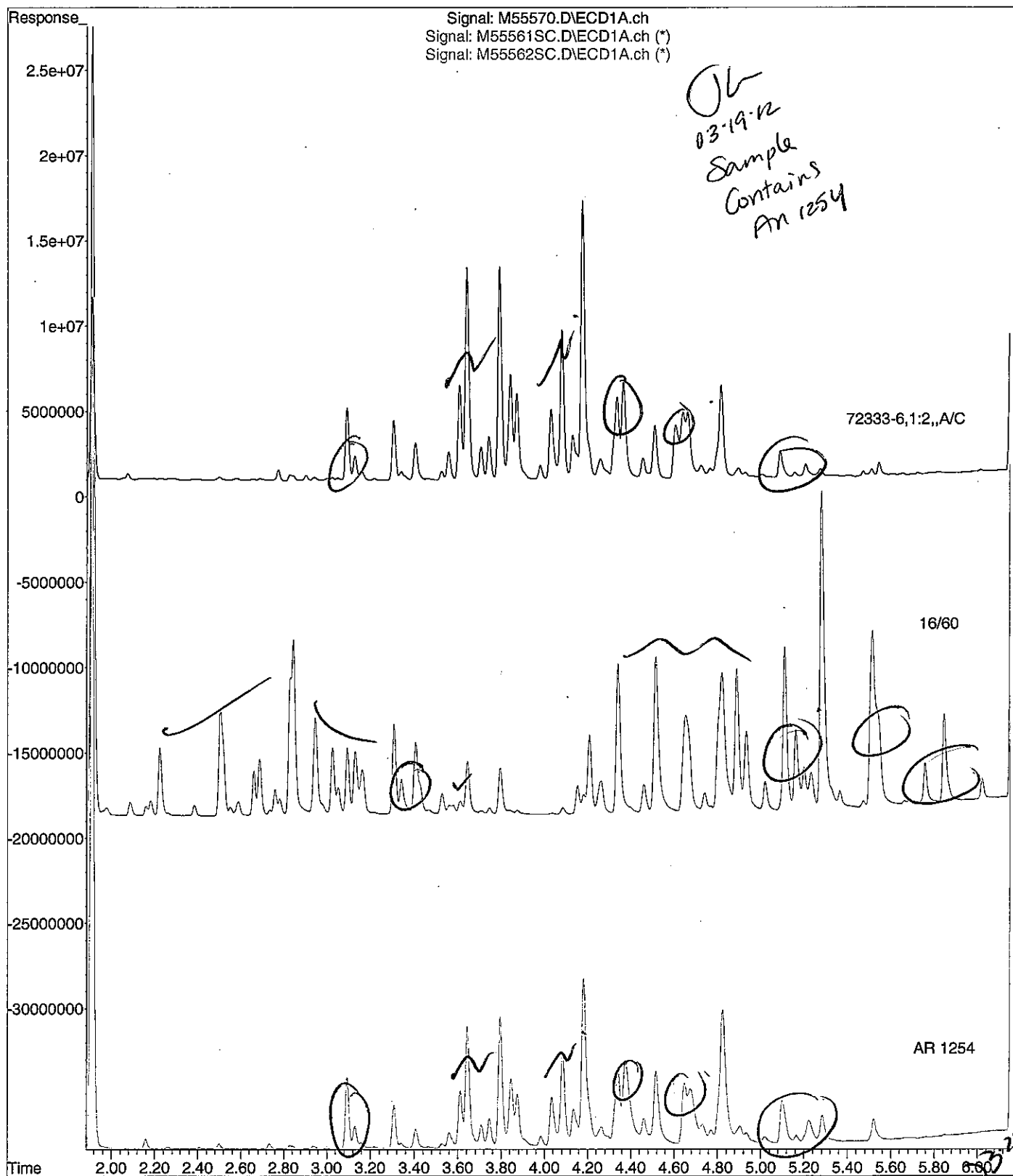
Data Path : C:\msdchem\1\DATA\031612-M\
 Data File : M55570.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Mar 2012 12:37 pm
 Operator : JK
 Sample : 72333-6,1:2,,A/C
 Misc : SOIL
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Mar 19 14:36:00 2012
 Quant Method : C:\msdchem\1\METHODS\PCB012712.M
 Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
 QLast Update : Wed Mar 07 11:55:20 2012
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 uL
 Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
 Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\031612-M\M55570.D
Operator : JK
Acquired : 16 Mar 2012 12:37 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72333-6,1:2,,A/C
Misc Info : SOIL
Vial Number: 14



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March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: PCB-20DUP@1"

Lab Sample ID: 72333-7
Matrix: Solid
Percent Solid: 99
Dilution Factor: 10
Collection Date: 03/08/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	6340
PCB-1260	330	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	100	%
Decachlorobiphenyl	96	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 72333

GC Column #1: STX-CLPesticides I

Sample: 72333-7,1:10,,A/C

Column ID: 0.25 mm

Data File: M55571.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 9.7

Column ID: 0.25 mm

COMPOUND	Column #1	Column #2		
	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	5877	6338	7.6	

Column to be used to flag RPD values greater than QC limit of 40%

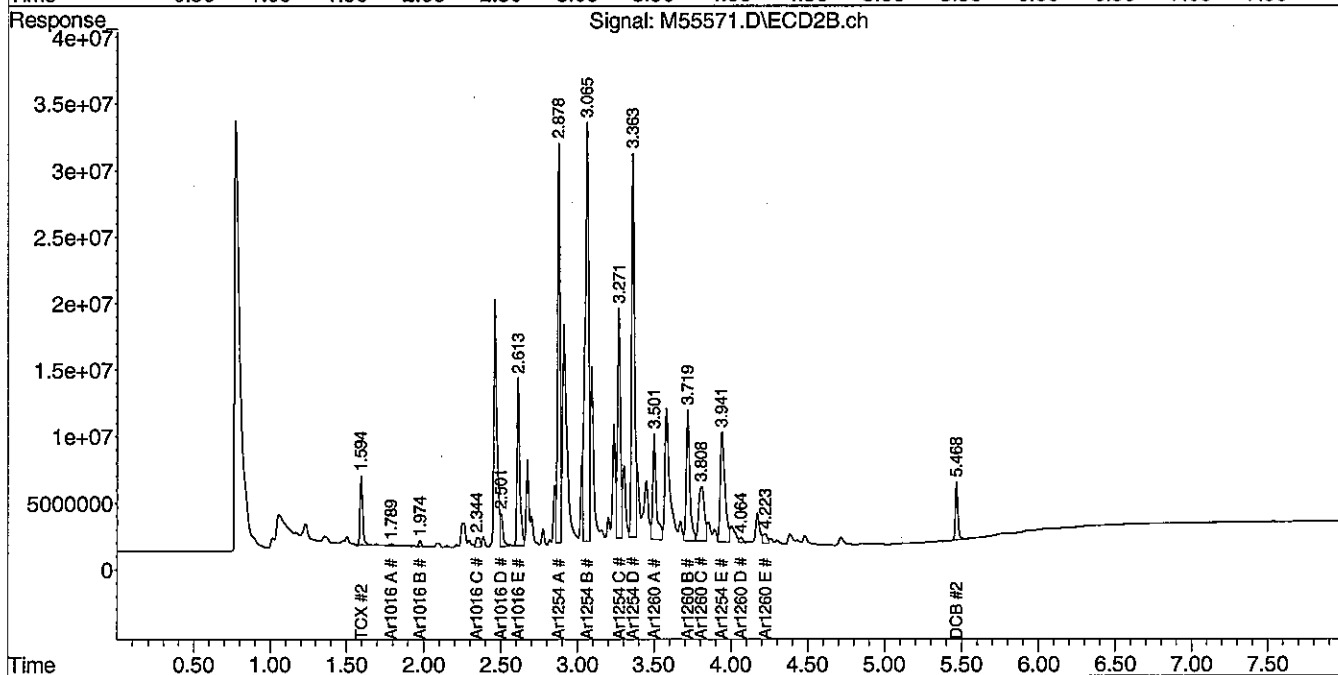
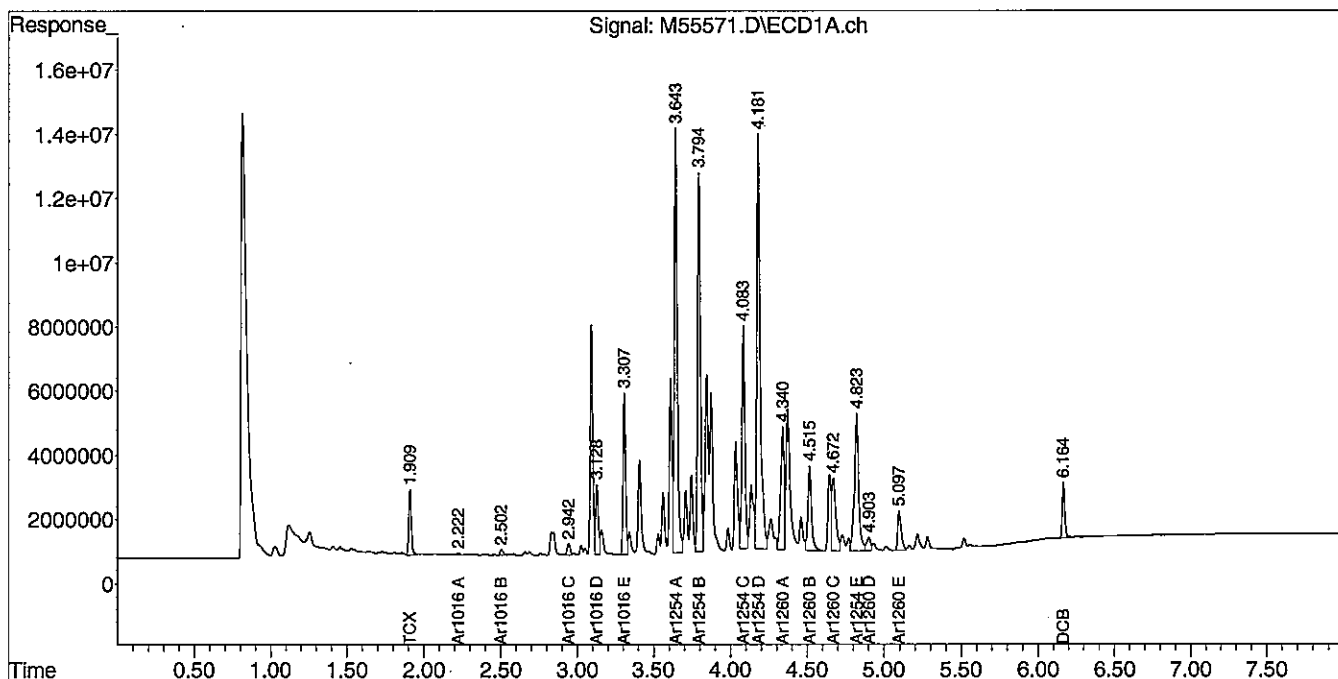
* Values outside QC limits

Comments: _____

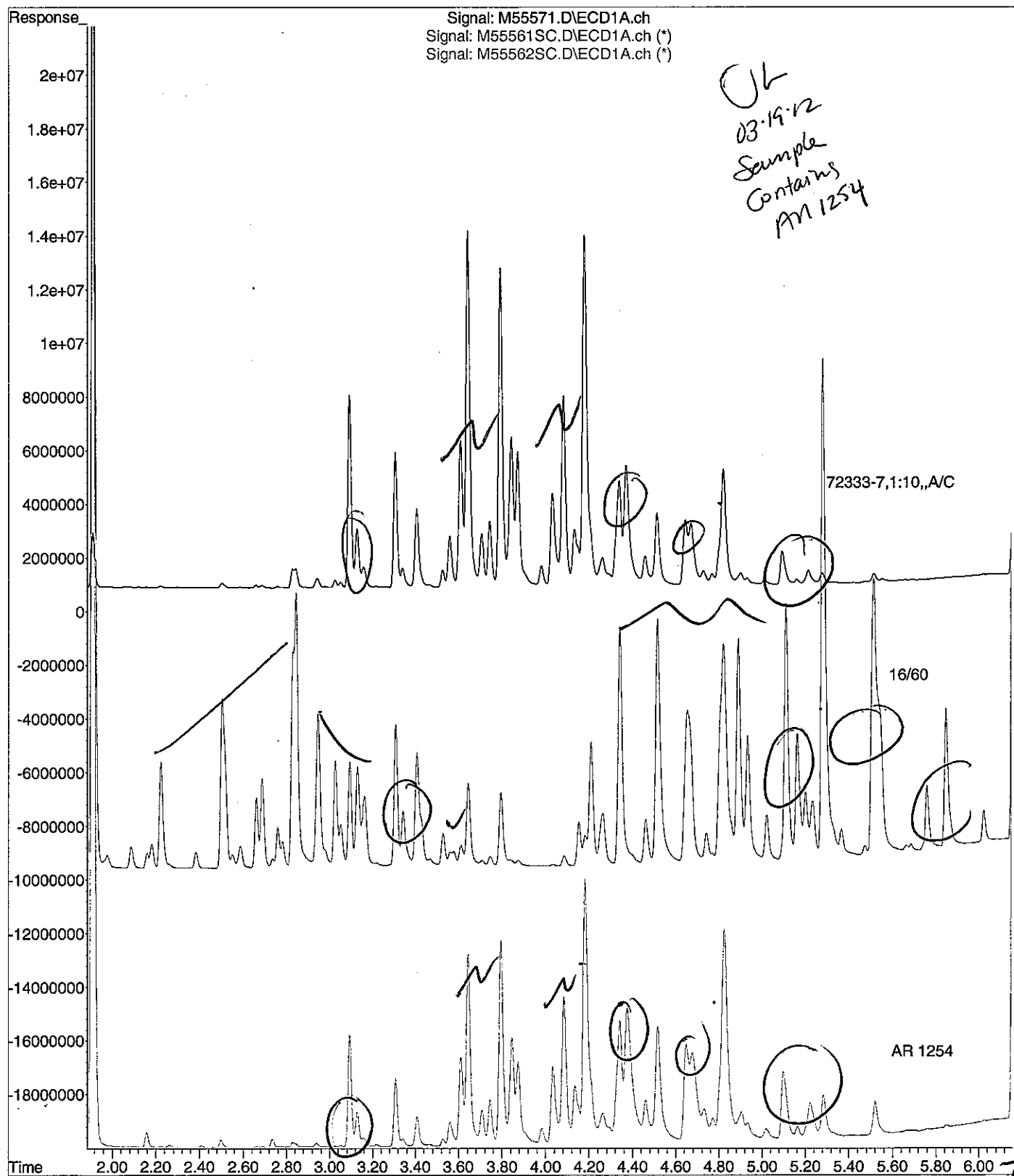
Data Path : C:\msdchem\1\DATA\031612-M\
Data File : M55571.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2012 12:47 pm
Operator : JK
Sample : 72333-7,1:10,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 19 14:37:29 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 07 11:55:20 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\031612-M\M55571.D
Operator : JK
Acquired : 16 Mar 2012 12:47 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72333-7,1:10,,A/C
Misc Info : SOIL
Vial Number: 15



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: SS-201

Lab Sample ID: 72333-8
Matrix: Solid
Percent Solid: 64
Dilution Factor: 2.9
Collection Date: 03/09/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	96	U
PCB-1221	96	U
PCB-1232	96	U
PCB-1242	96	U
PCB-1248	96	U
PCB-1254	96	2260
PCB-1260	96	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	124	%
Decachlorobiphenyl	126	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72333
Sample: 72333-8,1:2,,A/C
Data File: M55572.D
Dilution Factor: 2.9

COMPOUND	Column #1	Column #2		
	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	2258	1791	23.0	

Column to be used to flag RPD values greater than QC limit of 40%

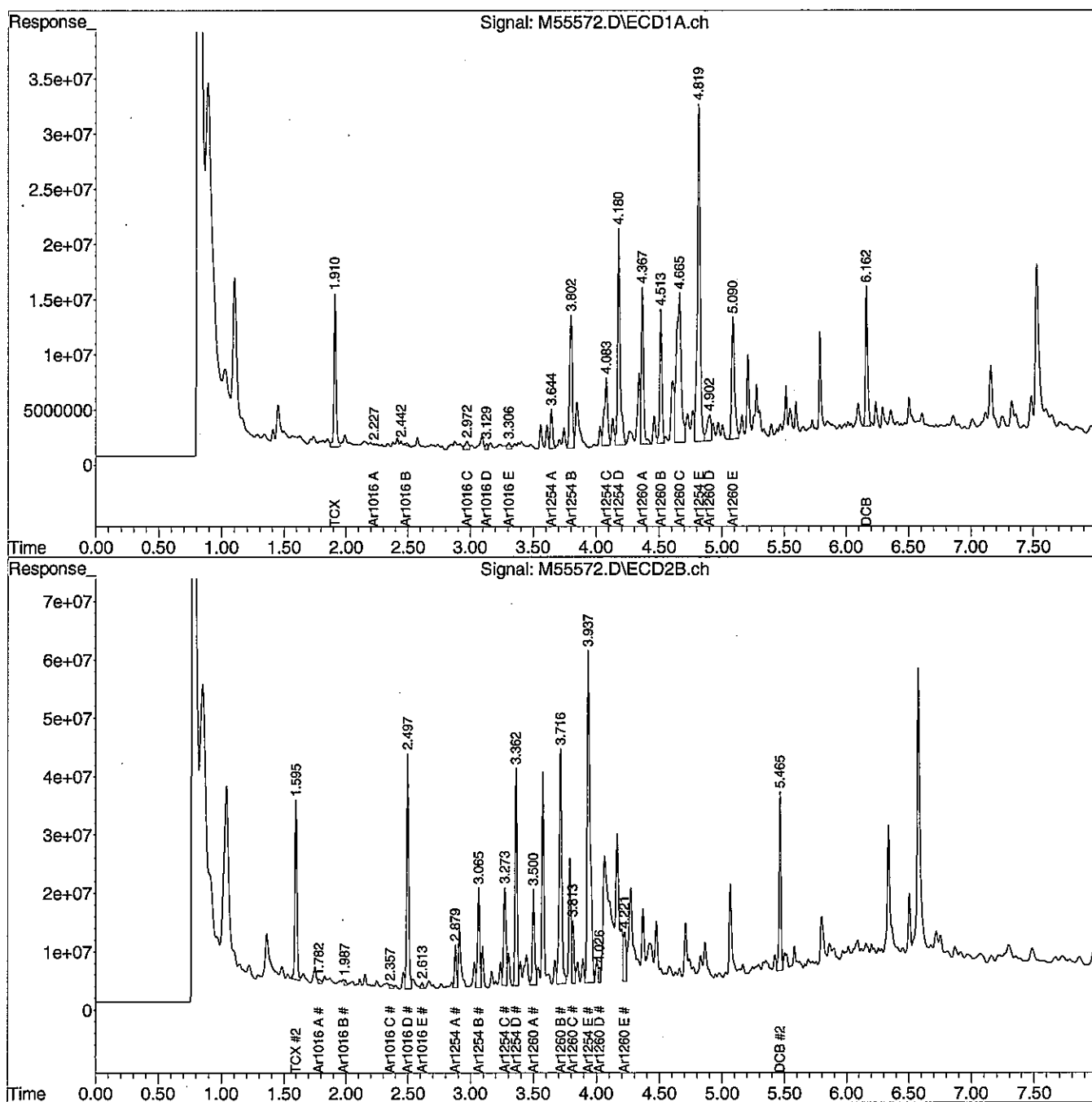
* Values outside QC limits

Comments: _____

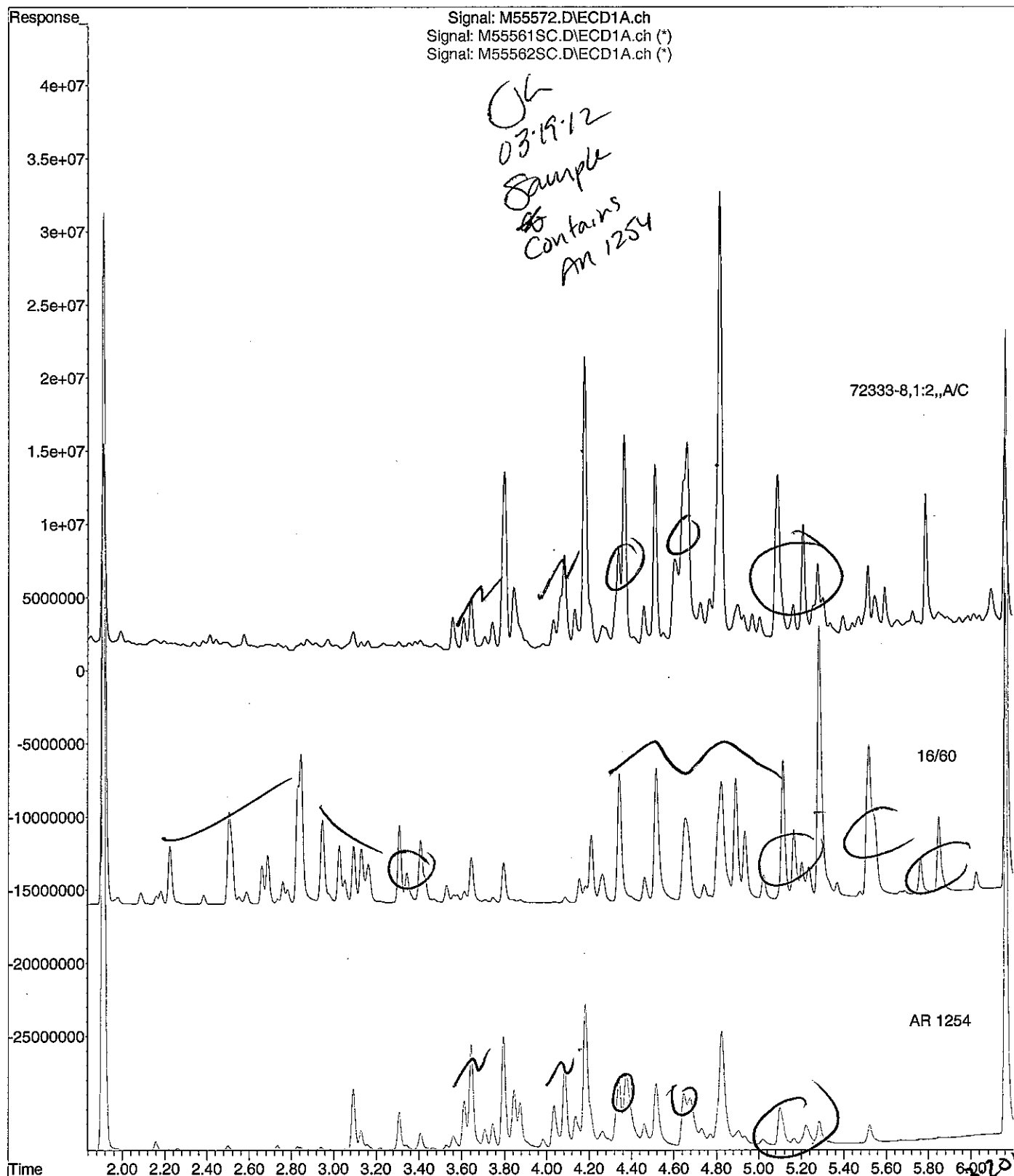
Data Path : C:\msdchem\1\DATA\031612-M\
Data File : M55572.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Mar 2012 12:57 pm
Operator : JK
Sample : 72333-8,1:2,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 19 14:39:13 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Mar 07 11:55:20 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0.25 um Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\031612-M\M55572.D
Operator : JK
Acquired : 16 Mar 2012 12:57 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72333-8,1:2,,A/C
Misc Info : SOIL
Vial Number: 16



Mr. Erik Phenix
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Portland, ME 04101

March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: SS-202

Lab Sample ID: 72333-9
Matrix: Solid
Percent Solid: 88
Dilution Factor: 1.1
Collection Date: 03/09/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	102	%
Decachlorobiphenyl	93	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

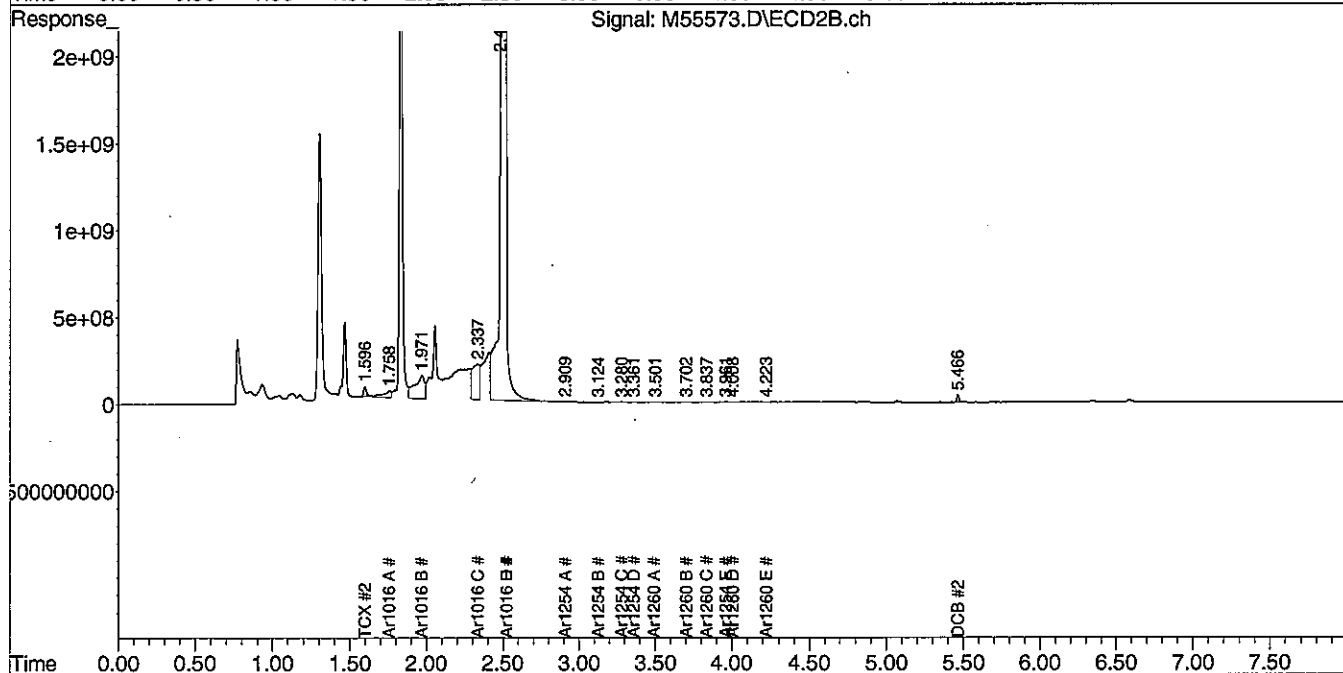
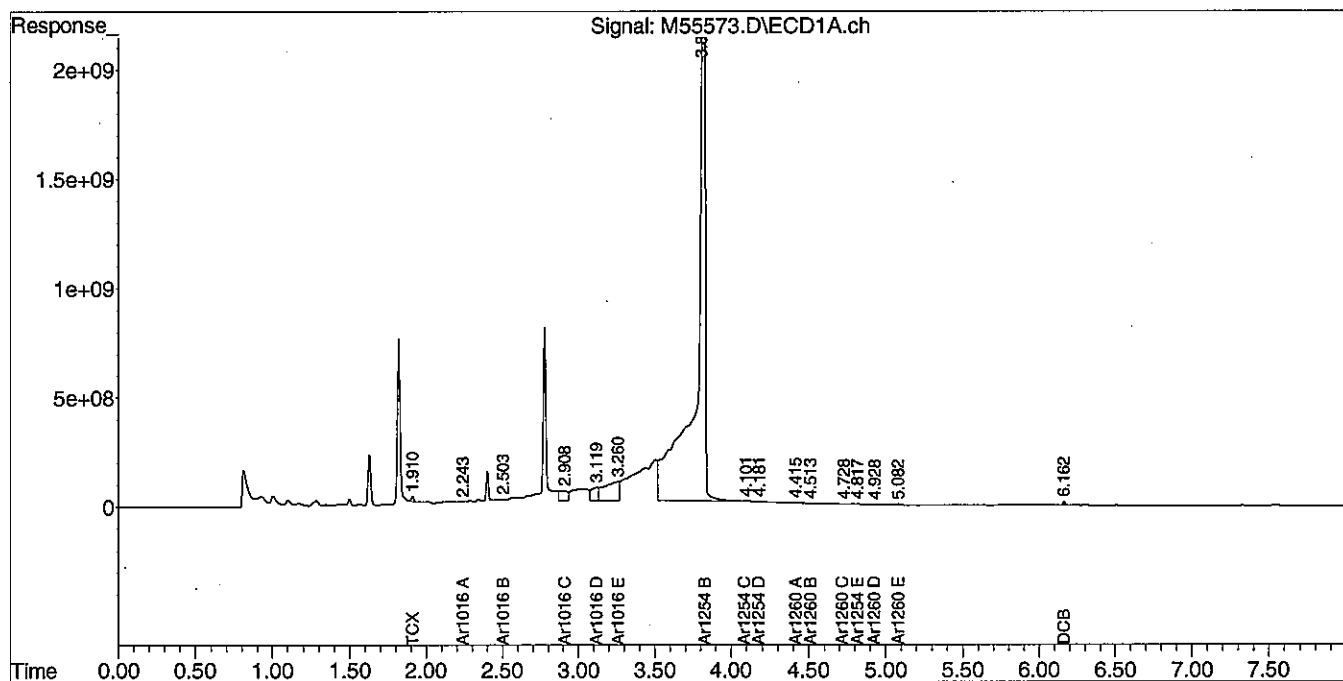
METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Data Path : C:\msdchem\1\DATA\031612-M\
 Data File : M55573.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Mar 2012 1:07 pm
 Operator : JK
 Sample : 72333-9,,A/C
 Misc : SOIL
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Mar 19 14:40:18 2012
 Quant Method : C:\msdchem\1\METHODS\PCB012712.M
 Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
 QLast Update : Wed Mar 07 11:55:20 2012
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 uL
 Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
 Signal #1 Info : 30 m x 0.25mm x 0.25 um Signal #2 Info : 30 m x 0.25mm x 0.25 um



Mr. Erik Phenix
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Portland, ME 04101

March 26, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: SS-203

Lab Sample ID: 72333-10 RX
Matrix: Solid
Percent Solid: 77
Dilution Factor: 1.3
Collection Date: 03/09/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/20/12
Analysis Date: 03/22/12

PCB ANALYTICAL RESULTS

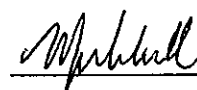
COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	43	U
PCB-1221	43	U
PCB-1232	43	U
PCB-1242	43	U
PCB-1248	43	U
PCB-1254	43	283
PCB-1260	43	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	75	%
Decachlorobiphenyl	84	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG: 72333

GC Column #1: STX-CLPesticides I

Sample: 72333-10,RX,,A/C

Column ID: 0.25 mm

Data File: L29140.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.3

Column ID: 0.25 mm

COMPOUND	Column #1	Column #2		
	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	283	242	15.3	

Column to be used to flag RPD values greater than QC limit of 40%

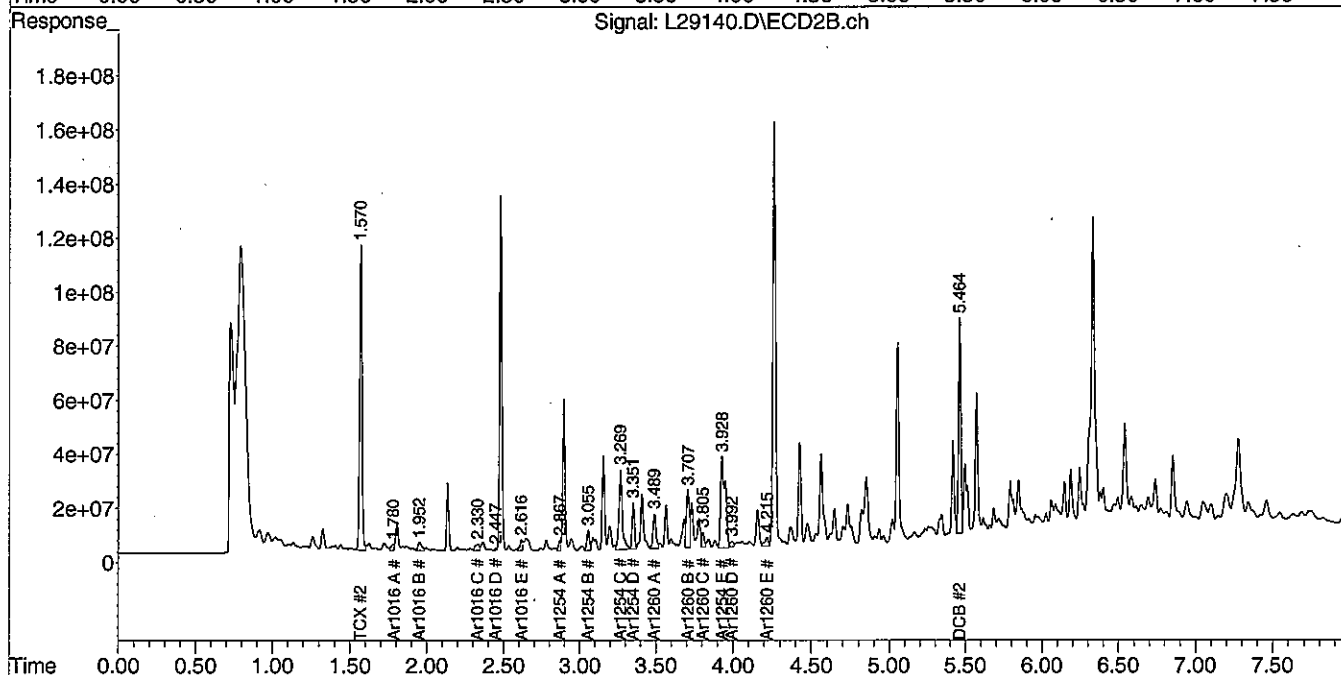
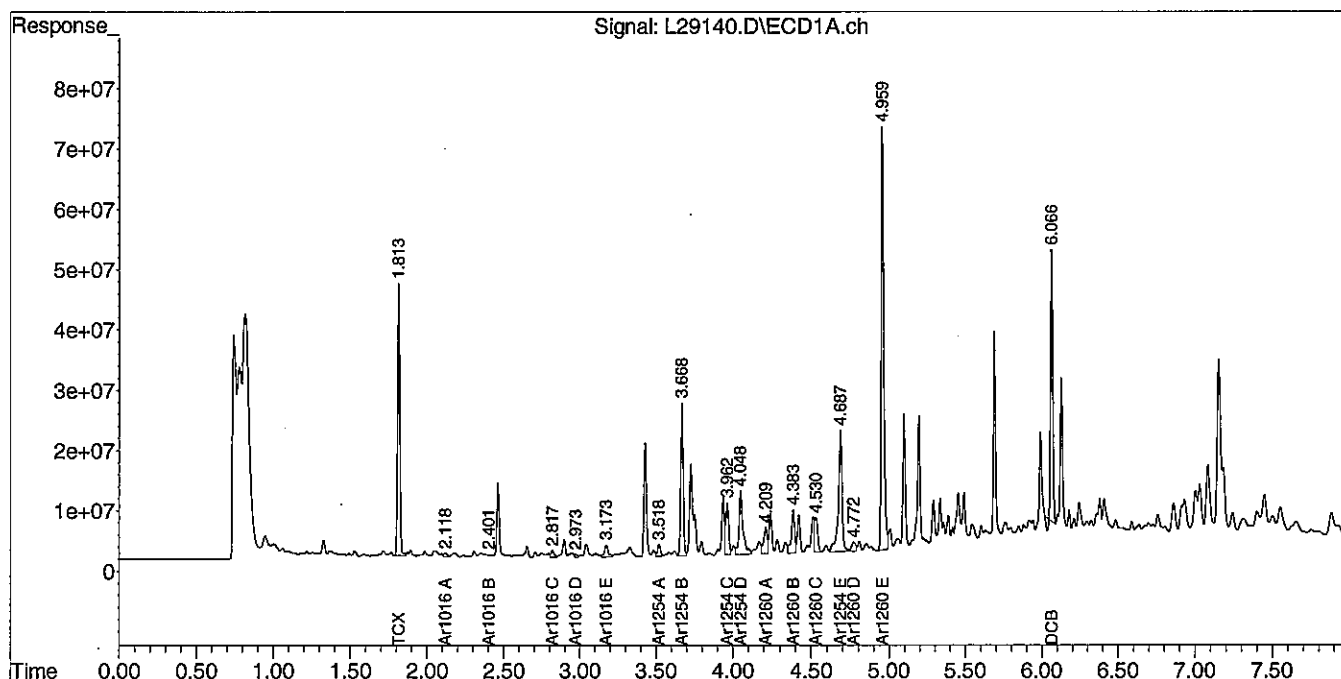
* Values outside QC limits

Comments: _____

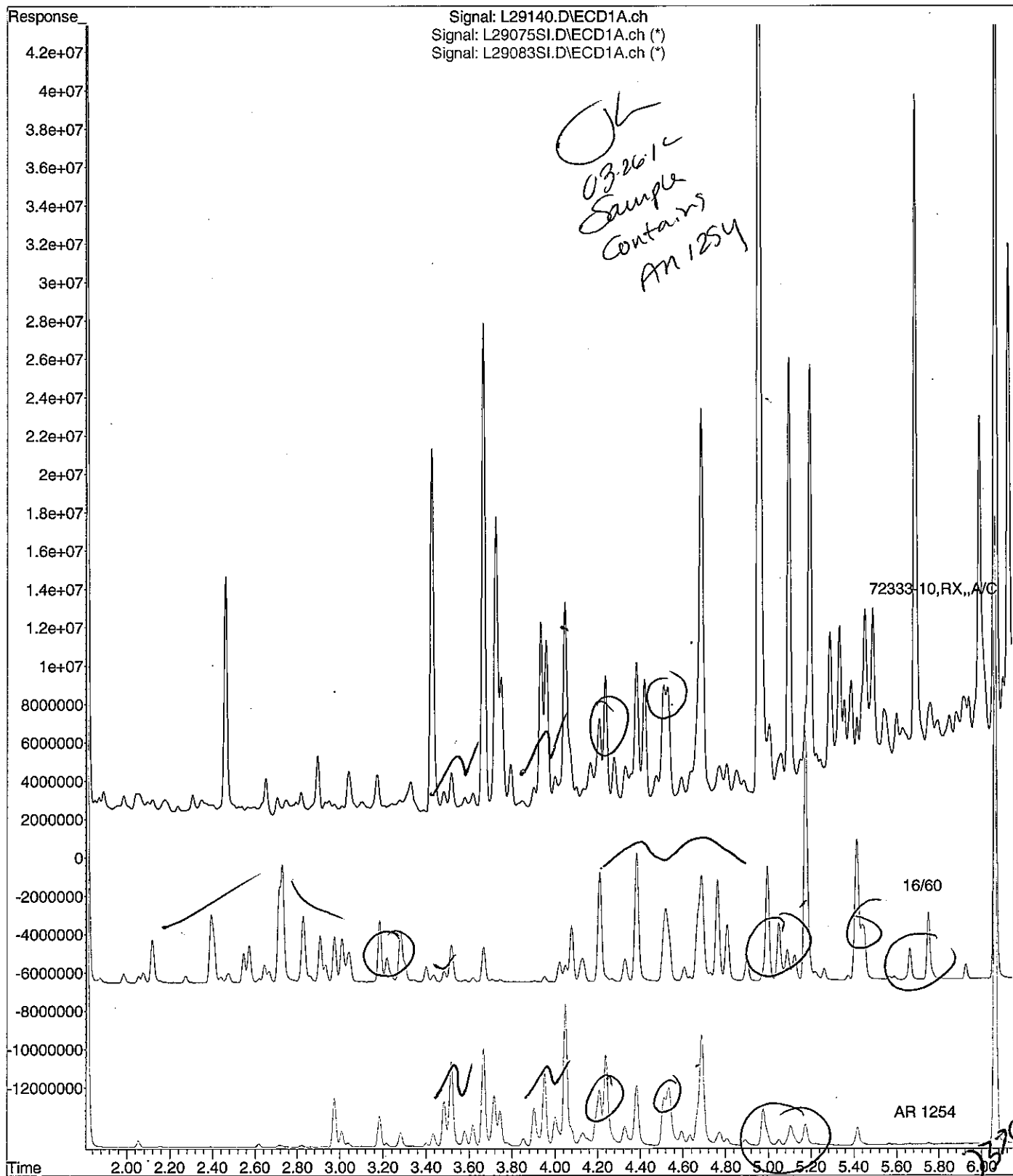
Data Path : C:\msdchem\1\DATA\032112-L\
 Data File : L29140.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Mar 2012 6:24 pm
 Operator : JK
 Sample : 72333-10,RX,,A/C
 Misc : SOIL
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 26 14:15:54 2012
 Quant Method : C:\msdchem\1\METHODS\PCB032112.M
 Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
 QLast Update : Thu Mar 22 10:38:07 2012
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 uL
 Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
 Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



File :C:\msdchem\1\DATA\032112-L\L29140.D
Operator : JK
Acquired : 22 Mar 2012 6:24 pm using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72333-10,RX,,A/C
Misc Info : SOIL
Vial Number: 12



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Portland, ME 04101

March 20, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 111.06128.002
Field Sample ID: BK-1

Lab Sample ID: 72333-14
Matrix: Solid
Percent Solid: 71
Dilution Factor: 1.4
Collection Date: 03/09/12
Lab Receipt Date: 03/12/12
Extraction Date: 03/13/12
Analysis Date: 03/16/12

PCB ANALYTICAL RESULTS		
COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	46	U
PCB-1221	46	U
PCB-1232	46	U
PCB-1242	46	U
PCB-1248	46	U
PCB-1254	46	U
PCB-1260	46	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	122	%
Decachlorobiphenyl	128	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

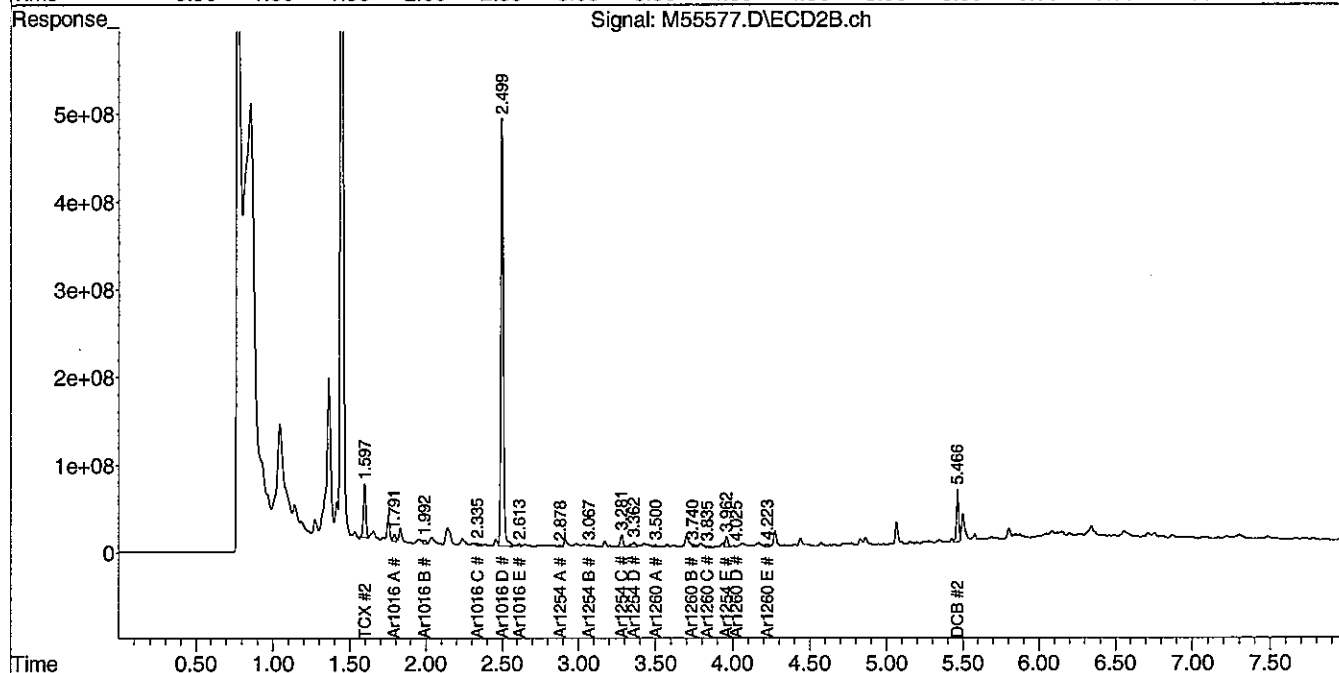
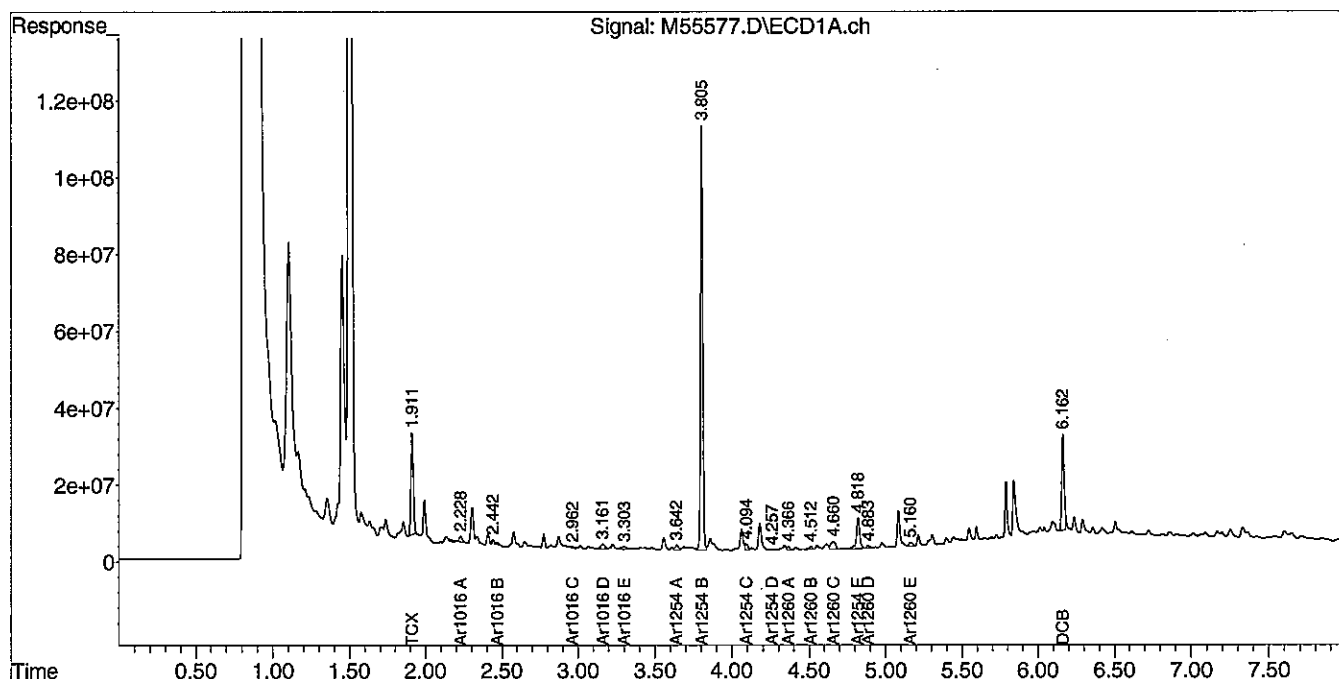
METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Data Path : C:\msdchem\1\DATA\031612-M\
 Data File : M55577.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Mar 2012 1:47 pm
 Operator : JK
 Sample : 72333-14,,A/C
 Misc : SOIL
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Mar 19 14:46:53 2012
 Quant Method : C:\msdchem\1\METHODS\PCB012712.M
 Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
 QLast Update : Wed Mar 07 11:55:20 2012
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 uL
 Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
 Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



PCB
QC FORMS

PCB SOIL

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72333

[illegible]

SMC #1 = TCX

SMC #2 = DCB

Lower Limit	Upper Limit
----------------	----------------

40

130

Column to be used to flag recovery values outside of QC limits

* Values outside QC limits

D System Monitoring Compound diluted out

PCB SOIL SYSTEM MONITORING COMPOUNDS SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72333

[illegible]

	Lower Limit	Upper Limit
SMC #1 = TCX	40	130
SMC #2 = DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72333

Non-spiked sample: B031312PSOX,,A/C

Spike: L031312PSOX,,A/C

Spike duplicate: LD031312PSOX,,A/C

	LCS SPIKE	LCSD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE		SPIKE DUP		SPIKE DUP			
COMPOUND	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	% REC	#	RPD	#	
PCB 1016	200	200	65	140	30	0	179	89		185	92		3.2		
PCB 1260	200	200	60	130	30	0	176	88		175	87		1.1		
PCB 1016 #2	200	200	65	140	30	0	174	87		185	92		5.9		
PCB 1260 #2	200	200	60	130	30	0	181	91		185	93		2.4		

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72333

Non-spiked sample: 72333-9,,A/C

Spike: 72333-9,MS,,A/C

Spike duplicate: 72333-9,MSD,,A/C

COMPOUND	MS SPIKE	MSD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE	SPIKE DUP		SPIKE DUP		RPD	
	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	% REC	#	RPD	#
PCB 1016	222	218	65	140	30	0	257	116		258	118		0.3	
PCB 1260	222	218	60	130	30	0	234	105		226	103		3.5	
PCB 1016 #2	222	218	65	140	30	0	221	99		228	105		3.3	
PCB 1260 #2	222	218	60	130	30	0	259	116		217	100		17.4	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: L

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72333

Non-spiked sample: B032012PSOX,RR,,A/C

Spike: L032012PSOX,RR,,A/C

Spike duplicate: LD032012PSOX,RR,,A/C

	LCS SPIKE	LCSD SPIKE	LOWER	UPPER	RPD	NON-SPIKE	SPIKE	SPIKE		SPIKE DUP		SPIKE DUP			
COMPOUND	ADDED (ug/kg)	ADDED (ug/kg)	LIMIT	LIMIT	LIMIT	RESULT (ug/kg)	RESULT (ug/kg)	% REC	#	RESULT (ug/kg)	% REC	#	RPD	#	
PCB 1016	200	200	65	140	30	0	170	85		170	85		0.0		
PCB 1260	200	200	60	130	30	0	173	86		181	91		4.6		
PCB 1016 #2	200	200	65	140	30	0	163	82		184	92		11.9		
PCB 1260 #2	200	200	60	130	30	0	183	91		192	96		5.1		

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits


LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

CHAIN OF CUSTODIES

Chain Of Custody Form

 environmental laboratory LLC		195 Commerce Way, Suite E Portsmouth, NH 03801 (603) 436-5111 (603) 430-2151 Fax (800) 929-9906		For Analytics Use Only Samples were: 1) Shipped or hand-delivered <u>180</u> 2) Temperature (°C): <u>Y</u> or <u>N</u> 3) Received in good condition: <u>N/A</u> 4) pH checked by: <u>Jul 3.12.12</u> 5) Labels checked by: <u>Jul 3.12.12</u>																							
Project Name: <u>St. Anthony's Parish</u> Project#: <u>111-06128.602</u> Company: <u>Ransom Consulting Inc.</u> Report to: <u>Erik Phenix</u> Address: <u>400 Commercial St. Ste 404</u> <u>Portland ME 04101</u> Phone: <u>(207) 772-2891</u> Quote #: <u>3920</u> PO# (if required): <u>3920</u>		Circle and/or Write Required Analysis Followed by Preservation Code <table border="1"> <tr> <th>Preservation Key:</th> <th>Field Filtered? Y or N</th> <th>VOC: 8260 524.2 624</th> <th>SVOC: 8270 625 PAH only SIM</th> <th>Pesticides: 8081 608</th> <th>PCB: 808 508 Soxhlet Y or N</th> <th>TPH: 8015 (Gas Range) ME4217</th> <th>TPH: 8015 (Diesel Range) 8100M ME4125</th> <th>EPH: Full or Ranges only TETPH</th> <th>VPH: Full or Ranges only TETPH</th> <th>Metals: RCRA8 PP13 TAL23 Other**</th> </tr> <tr> <td>A = HCL B = 4°C C = Unpres D = MeOH E = H2SO4 F = HNO3 G = Hexane H = Other</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Preservation Key:	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 808 508 Soxhlet Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only TETPH	Metals: RCRA8 PP13 TAL23 Other**	A = HCL B = 4°C C = Unpres D = MeOH E = H2SO4 F = HNO3 G = Hexane H = Other										
Preservation Key:	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 808 508 Soxhlet Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only TETPH	Metals: RCRA8 PP13 TAL23 Other**																	
A = HCL B = 4°C C = Unpres D = MeOH E = H2SO4 F = HNO3 G = Hexane H = Other																											
Sample Identification <u>PCB-201@1"</u> <u>PCB-201@2"</u> <u>PCB-202@1"</u> <u>PCB-202@2"</u> <u>PCB-203@1"</u> <u>PCB-203@2"</u> <u>PCB-20 DUP@1"</u> <u>SS-201</u> <u>SS-202</u> <u>SS-203</u>		Sample Date <u>3/8/12</u> <u>3/8/12</u> <u>3/8/12</u> <u>3/8/12</u> <u>3/8/12</u> <u>3/8/12</u> <u>3/8/12</u> <u>3/9/12</u> <u>3/9/12</u> <u>3/9/12</u>		Sample Time <u>1245</u> <u>1400</u> <u>1445</u> <u>1450</u> <u>1520</u> <u>1530</u> <u>1540</u> <u>1240</u> <u>1242</u> <u>1245</u>																							
Matrix: <u>C</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>72333-1</u>		Matrix: <u>C</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>2</u>																									
Matrix: <u>C</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>3</u>		Matrix: <u>C</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>4</u>																									
Matrix: <u>C</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>5</u>		Matrix: <u>C</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>6</u>																									
Matrix: <u>S</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>7</u>		Matrix: <u>S</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>8</u>																									
Matrix: <u>S</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>9</u>		Matrix: <u>S</u> No. of Containers: <u>1</u> pH checked: <u>1</u> Analytics Sample #: <u>10</u>																									
Matrix Key: C = Concrete WP = Waste WW = Wastewater SW = Surface Water E = Extract GW = Groundwater DW = Drinking Water S = Soil / Sludge O = Oil X = Other		Project Requirements: *Fee may apply Report Type: <input type="checkbox"/> MCP* <input checked="" type="checkbox"/> Level II* <input type="checkbox"/> CTRCP* <input type="checkbox"/> Level III* <input type="checkbox"/> DOD* <input type="checkbox"/> Level IV* <input type="checkbox"/> Standard State: <input type="checkbox"/> NH <input type="checkbox"/> MA <input checked="" type="checkbox"/> ME <input type="checkbox"/> CT <input type="checkbox"/> RI State Standard: <u>(eg. S-1 or GW-1)</u> EDD Required: <u>Y</u> or <u>N</u> Type: <u>MEDEP</u>																									
Email Results to: <u>ephenix@ransomenv.com</u>		Comments, Additional Analyses, or Special Instructions: <u>Maine DEP Brownfields project</u>																									
Turnaround Time (TAT) <input type="checkbox"/> 24 Hours* <input type="checkbox"/> 48 Hours* <input type="checkbox"/> 72 Hours* <input type="checkbox"/> 5 Days* <input checked="" type="checkbox"/> 10 Days* *Fee may apply; lab approval required		Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.																									
Sampler Name (Print): <u>Erik Phenix</u>		Received By: <u>David M. Hall</u>																									
Relinquished By Sampler: <u>Erik Phenix</u>		Received By: <u>David M. Hall</u>																									
Relinquished By:		Received By:																									
Relinquished By:		Received By:																									

Chain Of Custody Form

analytix environmental laboratory LLC		195 Commerce Way, Suite E Portsmouth, NH 03801 (800) 929-9906		(603) 436-5111 (603) 430-2151 Fax		For Analytics Use Only	
Project Name: <u>St. Anthony's Parish</u> Project#: <u>111.06128.002</u> Company: <u>Ransom Consulting Inc.</u> Report to: <u>Erik Phenix</u> Address: <u>400 Commercial St. Ste 404</u> <u>Portland ME 04101</u> Phone: <u>(207) 772-2891</u> Quote #: <u>3920</u> PO# (if required): <u>3920</u>		Circle and/or Write Required Analysis Followed by Preservation Code Please fill in preservation code here Metals: RCRAB P13 TAL23 Other** VPH: Full or Ranges only TETPH TPH: 8015 (Diesel Range) 8100M ME4125 TPH: 8015 (Gas Range) ME4217 PCB: 8082 608 Soxhlet? Y or N Pesticides: 8081 608 SVOC: 8270 625 PAH only SIM VOC: 8260 5242 624 Field Filtered? Y or N		Preservation Code: Preservation Key: A = HCL B = 4°C C = Unpres D = MeOH E = HNO3 F = H2SO4 G = Hexane H = Other		Matrix Key: C = Concrete WP = Waste Water SW = Surface Water E = Extract GW = Groundwater DW = Drinking Water S = Soil / Sludge O = Oil X = Other	
Samples were: 1) Shipped or hand-delivered: <u>1.8</u> 2) Temperature (°C): <u>N/A</u> 3) Received in good condition: <u>Y</u> or N 4) pH checked by: <u>N/A</u> 5) Labels checked by: <u>Jul 3, 12, 12</u>		Matrix No. of Containers checked pH checked Analytics Sample #		State Standard: State: <input type="checkbox"/> NH <input type="checkbox"/> MA <input checked="" type="checkbox"/> ME <input type="checkbox"/> CT <input type="checkbox"/> RI Report Type: <input type="checkbox"/> MCP* <input checked="" type="checkbox"/> Level II* <input type="checkbox"/> Level III* <input type="checkbox"/> Level IV* <input type="checkbox"/> Standard EDD Required: <input checked="" type="checkbox"/> N Type: <u>MEDEP</u>			
Email Results to: <u>ephenix@ransomenv.com</u> Turnaround Time (TAT) <input type="checkbox"/> 24 Hours* <input type="checkbox"/> 48 Hours* <input type="checkbox"/> 72 Hours* <input type="checkbox"/> 5 Days* <input checked="" type="checkbox"/> 10 Days *Fee may apply; lab approval required		Comments, Additional Analyses, or Special Instructions: <u>Maine DEP Brownfields project</u> ** List requested metals here		Project Requirements: *Fee may apply			
Sample Identification <u>B102 @ 1'</u> <u>B102 DUP</u> <u>B104 @ 12'</u> <u>BK-1</u>		Sample Date <u>3/9/12</u> <u>3/9/12</u> <u>3/9/12</u> <u>3/9/12</u>		Sample Time <u>0950</u> <u>0950</u> <u>1110</u> <u>1250</u>			
Relinquished By: <u>Erik Phenix</u> Relinquished By: <u>Erik Phenix</u> Relinquished By:		Date: <u>3/12/12</u> Time: <u>12:12</u> Received By: <u>[Signature]</u>		Date: <u>3/12/12</u> Time: <u>12:12</u> Received By:			

ANALYTICS SAMPLE RECEIPT CHECKLIST



AEL LAB#: 72333
 CLIENT: Ransom
 PROJECT: St. Anthony's Parish

COOLER NUMBER: 65
 NUMBER OF COOLERS: 1

A: PRELIMINARY EXAMINATION:

1. Cooler received by (initials): DW DATE COOLER RECEIVED/OPENED: 3/12/12
2. Circle one: Hand delivered (If so, skip 3) Shipped
3. Did cooler come with a shipping slip? Y (N)
- 3a. Enter carrier name and airbill number here: _____
4. Were custody seals on the outside of cooler? Y (N/A)
 How many & where: _____ Seal Date: _____ Seal Name: _____
5. Did the custody seals arrive unbroken and intact upon arrival? Y (N/A)
6. COC#: _____
7. Were Custody papers filled out properly (ink, signed, legible, project information etc)? (Y) N
8. Were custody papers sealed in a plastic bag? (Y) N
9. Did you sign the COC in the appropriate place? (Y) N
10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 1.8

B. Log-In: Date samples were logged in: 3/12/12 By: CP

11. Were all bottles sealed in separate plastic bags? Y (N)
12. Did all bottles arrive unbroken and were labels in good condition? (Y) N
13. Were all bottle labels complete (ID, Date, time, etc.)? (Y) N
14. Did all bottle labels agree with custody papers? (Y) N
15. Were the correct containers used for the tests indicated? (Y) N
16. Were samples received at the correct pH? Y (N/A)
17. Was sufficient amount of sample sent for the tests indicated? (Y) N
18. Were all samples submitted within holding time? (Y) N
19. Were VOA samples absent of greater than pea-sized bubbles? Y (N/A)
 (Note: Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

If NO, List Sample ID's, Lab #s: _____

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JH Date: 3.12.12

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

Report Number: 73216

Revision: Rev. 0

Re: St. Anthony's Parish (Project No: 121.06071.001)

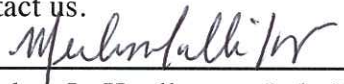
Enclosed are the results of the analyses on your sample(s). Samples were received on 15 June 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
73216-1	06/14/12	PCB-203@4	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: Sample was taken off hold over holding time. The client was notified and analysis continued.

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Department of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature 
Stephen L. Knollmeyer Lab. Director
Date 07/09/2012

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Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

July 9, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 121.06071.001
Field Sample ID: PCB-203@4

Lab Sample ID: 73216-1
Matrix: Solid
Percent Solid: 99
Dilution Factor: 1.0
Collection Date: 06/14/12
Lab Receipt Date: 06/15/12
Extraction Date: 07/02/12
Analysis Date: 07/03/12

PCB ANALYTICAL RESULTS		
COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	420
PCB-1260	33	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	66	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



Chain Of Custody Form

ANALYTICS environmental laboratory LLC 195 Commerce Way Suite E Portsmouth, NH 03801 Phone (603) 436-5111 Fax (603) 430-2151		For Analytics Use Only Rev 10/02 Samples were: 1) Shipped or hand-delivered 2) Temp blank °C <u>3.0°C</u> 3) Received in good condition Y or N 4) pH checked by: <u>AM 6/5/12</u> 5) Labels checked by: <u>OP 6/5/12</u> <u>KAM 7/2/12</u>		Relinquished By: <u>[Signature]</u> Date: <u>6/15/12</u> Time: <u>1335</u> Relinquished By: <u>[Signature]</u> Date: <u>6/15/12</u> Time: <u>1335</u> Relinquished By: <u>[Signature]</u> Date: <u>6/15/12</u> Time: <u>1335</u>	
Project#: <u>12L06071001</u> Proj. Name: <u>St. Anthony's Parish</u> Company: <u>Ransom Consulting Inc.</u> Contact: <u>Erik Phenix</u> Address: <u>400 Commercial St. Suite 404</u> <u>Portland ME 04101</u> Phone: <u>(207) 772-2891</u> PO# <u>4267</u> Quote # Sampler (Signature): <u>Erik Phenix</u>		Matrix Key: WW=Wastewater SW=Surfacewater GW=Groundwater DW=Drinkingwater S=Soil/Sludge O=Oil E=Extract X=Other		Container Key P=plastic G=glass Container # <u>73216-1</u> pH <u>7.3</u> Analytics Sample # <u>73216-1</u>	
Station Identification <u>PCB-203-03</u> <u>PCB-203-04</u> <u>PCB-203-Perpendicular</u> <u>PCB-203-Parallel</u> <u>PCB-201-Perpendicular</u> <u>PCB-201-Parallel</u> <u>Rear Dock Calk</u> <u>Equipment Blank</u>		Sample Date <u>6/14/12</u> <u>6/14/12</u> <u>6/14/12</u> <u>6/14/12</u> <u>6/14/12</u> <u>6/14/12</u> <u>6/14/12</u>		Sample Time <u>1105</u> <u>1115</u> <u>1145</u> <u>1155</u> <u>1210</u> <u>1230</u> <u>1240</u> <u>1230</u>	
Analysis <u>PCBs 8082</u> <u>PCBs 8082</u> <u>PCBs 8082</u> <u>PCBs 8082</u> <u>PCBs 8082</u> <u>PCBs 8082</u> <u>PCBs 8082</u> <u>PCBs 8082</u>		Preservation Unpres 4°C HNO ₃ H ₂ SO ₄ HCl		pH <u>7.3</u> <u>7.3</u> <u>7.3</u> <u>7.3</u> <u>7.3</u> <u>7.3</u> <u>7.3</u>	
Comments / Instructions: * Hold analysis of PCB-203-04 until further instruction. * Sample wts (-) for CL w/ 1000 measured with 10 paper (w/ 6/5/12)		email: <u>NO</u> FAX RESULTS? <u>YES</u> Fax# <u>ephenix@ransomenv.com</u>		Turnaround Request Standard <input checked="" type="checkbox"/> Priority <input type="checkbox"/> Due Date <input type="checkbox"/> Due Date <input type="checkbox"/>	



environmental
laboratory LLC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#:

73216

COOLER NUMBER:

72

CLIENT:

RANSOM

NUMBER OF COOLERS:

1

PROJECT:

ST-ANTHONY'S PARISH

A: PRELIMINARY EXAMINATION:

1. Cooler received by (initials):

CAW

DATE COOLER RECEIVED/OPENED:

6/15/12

2. Circle one:

(Hand delivered
(If so, skip 3))

Shipped

3. Did cooler come with a shipping slip?

Y

N

3a. Enter carrier name and airbill number here:

4. Were custody seals on the outside of cooler?

Y

N

How many & where:

Seal Date:

Seal Name:

5. Did the custody seals arrive unbroken and intact upon arrival?

Y

NA

6. COC#:

7. Were Custody papers filled out properly (ink, signed, legible, project information etc)?

Y

N

8. Were custody papers sealed in a plastic bag?

Y

N

9. Did you sign the COC in the appropriate place?

Y

N

10. Was enough ice used to chill the cooler?

N

Temp. of cooler:

3.0 C

B. Log-In: Date samples were logged in:

6/15/12

By:

CP

CP 7/2/12

11. Were all bottles sealed in separate plastic bags?

Y

N

12. Did all bottles arrive unbroken and were labels in good condition?

Y

N

13. Were all bottle labels complete (ID, Date, time, etc.)

Y

N

14. Did all bottle labels agree with custody papers?

Y

N

15. Were the correct containers used for the tests indicated?

Y

N

16. Were samples received at the correct pH?

Y

N

17. Was sufficient amount of sample sent for the tests indicated?

Y

N

18. Were all samples submitted within holding time?

Y

N

19. Were all containers used within expiration date?

Y

NA

20. Were VOA samples absent of greater than pea-sized bubbles?

Y

NA

(Note: Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s:

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials):

CP
KAM

Date:

6/15/12
7/2/12

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

Report Number: 73100

Revision: Rev. 0

Re: St. Anthony's Parish (Project No: 121.06071.001)

Enclosed are the results of the analyses on your sample(s). Samples were received on 15 June 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

<u>Lab Number</u>	<u>Sample Date</u>	<u>Station Location</u>	<u>Analysis</u>	<u>Comments</u>
73100-1	06/14/12	PCB-203 @ 3"	EPA 8082 (PCBs only)	
73100-2	06/14/12	PCB-203- Perpendicular	EPA 8082 (PCBs only)	
73100-3	06/14/12	PCB-203- Parallel	EPA 8082 (PCBs only)	
73100-4	06/14/12	PCB-201- Perpendicular	EPA 8082 (PCBs only)	
73100-5	06/14/12	PCB-201- Parallel	EPA 8082 (PCBs only)	
73100-6	06/14/12	Rear Door Caulk	EPA 8082 (PCBs only)	
73100-7	06/14/12	Equipment Blank	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Department of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature


Stephen L. Knollmeyer Lab. Director

Date

06/25/2012

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Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME .04101

June 21, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 121.06071.001
Field Sample ID: PCB-203 @ 3"

Lab Sample ID: 73100-1
Matrix: Solid
Percent Solid: 99
Dilution Factor: 2.0
Collection Date: 06/14/12
Lab Receipt Date: 06/15/12
Extraction Date: 06/18/12
Analysis Date: 06/20/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	66	U
PCB-1221	66	U
PCB-1232	66	U
PCB-1242	66	U
PCB-1248	66	U
PCB-1254	66	1460
PCB-1260	66	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	66	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

June 21, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 121.06071.001
Field Sample ID: PCB-203- Perpendicular

Lab Sample ID: 73100-2
Matrix: Solid
Percent Solid: 99
Dilution Factor: 5.0
Collection Date: 06/14/12
Lab Receipt Date: 06/15/12
Extraction Date: 06/18/12
Analysis Date: 06/20/12

PCB ANALYTICAL RESULTS

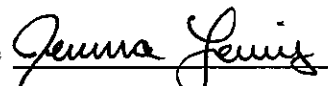
COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	165	U
PCB-1221	165	U
PCB-1232	165	U
PCB-1242	165	U
PCB-1248	165	U
PCB-1254	165	2860
PCB-1260	165	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	74	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

June 21, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 121.06071.001
Field Sample ID: PCB-203- Parallel

Lab Sample ID: 73100-3
Matrix: Solid
Percent Solid: 99
Dilution Factor: 1.9
Collection Date: 06/14/12
Lab Receipt Date: 06/15/12
Extraction Date: 06/18/12
Analysis Date: 06/20/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	63	U
PCB-1221	63	U
PCB-1232	63	U
PCB-1242	63	U
PCB-1248	63	U
PCB-1254	63	1070
PCB-1260	63	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	69	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

June 21, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish

Project Number: 121.06071.001

Field Sample ID: PCB-201- Perpendicular

Lab Sample ID: 73100-4

Matrix: Solid

Percent Solid: 99

Dilution Factor: 10

Collection Date: 06/14/12

Lab Receipt Date: 06/15/12

Extraction Date: 06/18/12

Analysis Date: 06/20/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	3840
PCB-1260	330	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	71	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

June 21, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 121.06071.001
Field Sample ID: PCB-201- Parallel

Lab Sample ID: 73100-5
Matrix: Solid
Percent Solid: 99
Dilution Factor: 2.0
Collection Date: 06/14/12
Lab Receipt Date: 06/15/12
Extraction Date: 06/18/12
Analysis Date: 06/20/12

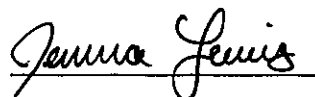
PCB ANALYTICAL RESULTS		
COMPOUND	Quantitation Limit $\mu\text{g/kg}$	Results $\mu\text{g/kg}$
PCB-1016	66	U
PCB-1221	66	U
PCB-1232	66	U
PCB-1242	66	U
PCB-1248	66	U
PCB-1254	66	1650
PCB-1260	66	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	70	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

June 25, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 121.06071.001
Field Sample ID: Rear Door Caulk

Lab Sample ID: 73100-6
Matrix: Solid
Percent Solid: 100
Dilution Factor: 8550
Collection Date: 06/14/12
Lab Receipt Date: 06/15/12
Extraction Date: 06/18/12
Analysis Date: 06/22/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	282000	U
PCB-1221	282000	U
PCB-1232	282000	U
PCB-1242	282000	U
PCB-1248	282000	U
PCB-1254	282000	4820000
PCB-1260	282000	U
<u>Surrogate Standard Recovery</u>		
2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.



Mr. Erik Phenix
Ransom Consulting, Inc.
400 Commercial Street Suite 404
Portland, ME 04101

June 25, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: St. Anthony's Parish
Project Number: 121.06071.001
Field Sample ID: Equipment Blank

Lab Sample ID: 73100-7
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/14/12
Lab Receipt Date: 06/15/12
Extraction Date: 06/21/12
Analysis Date: 06/22/12

PCB ANALYTICAL RESULTS

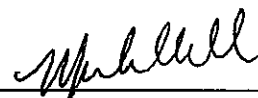
COMPOUND	Quantitation Limit $\mu\text{g/L}$	Results $\mu\text{g/L}$
PCB-1016	0.2	U
PCB-1221	0.2	U
PCB-1232	0.2	U
PCB-1242	0.2	U
PCB-1248	0.2	U
PCB-1254	0.2	U
PCB-1260	0.2	U
Surrogate Standard Recovery		
2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	65	%
U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.


COMMENTS:

PCB Report

Authorized signature



Chain Of Custody Form

		195 Commerce Way Suite E Portsmouth, NH 03801 Phone (603) 436-5111 Fax (603) 430-2151		For Analytics Use Only Rev 10/02	
Project#: 121.06071.001 Proj. Name: St. Anthony's Parish Company: Ransom Consulting Inc. Contact: Erik Phenix Address: 400 Commercial St. Suite 404 Portland ME 04101 Phone: (207) 772-2891 PO# 4267 Quote # Sampler (Signature): Erik Phenix		Matrix Key: WW=Wastewater SW=Surfacewater GW=Groundwater DW=Drinkingwater S=Soil/Sludge O=Oil E=Extract X=Other		Samples were: 1) Shipped or hand-delivered 2) Temp blank °C 3.0°C 3) Received in good condition Y or N 4) pH checked by: DM 6/5/12 5) Labels checked by: CP 6/5/12	
Station Identification PCB-203@3" PCB-203@4" PCB-203-Perpendicular PCB-203-Parallel PCB-201-Perpendicular PCB-201-Parallel Rear Door Cowl Equipment Blank		Sample Date 6/14/12 6/14/12 6/14/12 6/14/12 6/14/12 6/14/12 6/14/12		Sample Time 1105 1115 1145 1155 1210 1230 1240 1230	
Analysis PCBs 8082 PCBs 8082 PCBs 8082 PCBs 8082 PCBs 8082 PCBs 8082 PCBs 8082 PCBs 8082		Preservation Unpres 4°C HNO ₃ H ₂ SO ₄ HCL Other		Container Key P=plastic G=glass Container number/type Matrix pH Analytics Sample #	
Received By: [Signature] Date: 6/15/12 Time: 1335		Received By: [Signature] Date: 6/15/12 Time: 1335		Relinquished By: [Signature] Date: 6/15/12 Time: 1335	
Relinquished By: [Signature] Date: 6/15/12 Time: 1335		Relinquished By: [Signature] Date: 6/15/12 Time: 1335		Relinquished By: [Signature] Date: 6/15/12 Time: 1335	
Comments / Instructions: * Hold analysis of PCB-203@4" until further instruction. * * SAMPLE WTS (-) FOR CL WITHIN MCA5URED WITH KE PAPER QUA 6/5/12		Email FAX RESULTS? YES NO Ex# ephenix@ransomenv.com Turnaround Request Standard Due Date Priority Due Date		Page 1 of 1	



environmental
laboratory LLC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 73100
CLIENT: RANSOM
PROJECT: ST. ANTHONY'S PARISH

COOLER NUMBER: 72
NUMBER OF COOLERS: 1

A: PRELIMINARY EXAMINATION:

1. Cooler received by (initials): CDM DATE COOLER RECEIVED/OPENED: 6/15/12
2. Circle one: (Hand delivered) (If so, skip 3) Shipped
3. Did cooler come with a shipping slip? Y (N)
- 3a. Enter carrier name and airbill number here: _____
4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____
5. Did the custody seals arrive unbroken and intact upon arrival? Y NA
6. COC#: _____
7. Were Custody papers filled out properly (ink, signed, legible, project information etc)? (Y) N
8. Were custody papers sealed in a plastic bag? (X) N
9. Did you sign the COC in the appropriate place? (Y) N
10. Was enough ice used to chill the cooler? (N) Temp. of cooler: 3.0°C

B. Log-In: Date samples were logged in: 6/15/12 By: U

11. Were all bottles sealed in separate plastic bags? (Y) N
12. Did all bottles arrive unbroken and were labels in good condition? (Y) N
13. Were all bottle labels complete (ID, Date, time, etc.)? (Y) N
14. Did all bottle labels agree with custody papers? (Y) N
15. Were the correct containers used for the tests indicated? (Y) N
16. Were samples received at the correct pH? (N) N
17. Was sufficient amount of sample sent for the tests indicated? (Y) N
18. Were all samples submitted within holding time? (Y) N
19. Were all containers used within expiration date? Y NA
20. Were VOA samples absent of greater than pea-sized bubbles? Y N* A
- (Note: Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): CP

Date: 6/15/12



ANALYTICAL REPORT

Lab Number:	L1210951
Client:	Ransom Environmental 400 Commercial Street Suite 404 Portland, ME 04101-4660
ATTN:	Steve Dyer
Phone:	(207) 772-2891
Project Name:	ST. ANTHONY'S
Project Number:	121.06071.001
Report Date:	06/26/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: ST. ANTHONY'S
Project Number: 121.06071.001

Lab Number: L1210951
Report Date: 06/26/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1210951-01	AIR FIRST FLOOR	WESTBROOK, ME	06/14/12 14:35
L1210951-02	AIR BASEMENT	WESTBROOK, ME	06/14/12 14:40

Project Name: ST. ANTHONY'S
Project Number: 121.06071.001

Lab Number: L1210951
Report Date: 06/26/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ST. ANTHONY'S
Project Number: 121.06071.001

Lab Number: L1210951
Report Date: 06/26/12

Case Narrative (continued)

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were transported to the laboratory in a cooler without ice. The client was notified of the exceedance, and all requested analyses were performed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cynthia McQueen

Title: Technical Director/Representative

Date: 06/26/12

ORGANICS

SEMIVOLATILES

Project Name: ST. ANTHONY'S**Lab Number:** L1210951**Project Number:** 121.06071.001**Report Date:** 06/26/12**SAMPLE RESULTS**

Lab ID: L1210951-01
 Client ID: AIR FIRST FLOOR
 Sample Location: WESTBROOK, ME
 Matrix: Air Cartridge
 Analytical Method: 105,680/8270C-SIM(M)
 Analytical Date: 06/22/12 04:01
 Analyst: JD

Date Collected: 06/14/12 14:35
 Date Received: 06/19/12
 Field Prep: Not Specified
 Extraction Method: EPA 3540C
 Extraction Date: 06/20/12 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab						
Monochlorobiphenyls	ND		ng/cart	10.0	--	1
Dichlorobiphenyls	ND		ng/cart	10.0	--	1
Trichlorobiphenyls	ND		ng/cart	10.0	--	1
Tetrachlorobiphenyls	ND		ng/cart	10.0	--	1
Pentachlorobiphenyls	ND		ng/cart	10.0	--	1
Hexachlorobiphenyls	ND		ng/cart	10.0	--	1
Heptachlorobiphenyls	ND		ng/cart	10.0	--	1
Octachlorobiphenyls	ND		ng/cart	10.0	--	1
Nonachlorobiphenyls	ND		ng/cart	10.0	--	1
Decachlorobiphenyl	ND		ng/cart	10.0	--	1
Total Homologs	ND		ng/cart	10.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	98		50-125
Cl8-BZ#202-C13	91		50-125

Project Name: ST. ANTHONY'S**Lab Number:** L1210951**Project Number:** 121.06071.001**Report Date:** 06/26/12**SAMPLE RESULTS**

Lab ID: L1210951-02
Client ID: AIR BASEMENT
Sample Location: WESTBROOK, ME
Matrix: Air Cartridge
Analytical Method: 105,680/8270C-SIM(M)
Analytical Date: 06/22/12 04:58
Analyst: JD

Date Collected: 06/14/12 14:40
Date Received: 06/19/12
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/20/12 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab						
Monochlorobiphenyls	ND		ng/cart	10.0	--	1
Dichlorobiphenyls	ND		ng/cart	10.0	--	1
Trichlorobiphenyls	ND		ng/cart	10.0	--	1
Tetrachlorobiphenyls	ND		ng/cart	10.0	--	1
Pentachlorobiphenyls	ND		ng/cart	10.0	--	1
Hexachlorobiphenyls	ND		ng/cart	10.0	--	1
Heptachlorobiphenyls	ND		ng/cart	10.0	--	1
Octachlorobiphenyls	ND		ng/cart	10.0	--	1
Nonachlorobiphenyls	ND		ng/cart	10.0	--	1
Decachlorobiphenyl	ND		ng/cart	10.0	--	1
Total Homologs	ND		ng/cart	10.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	102		50-125
Cl8-BZ#202-C13	94		50-125

Project Name: ST. ANTHONY'S

Lab Number: L1210951

Project Number: 121.06071.001

Report Date: 06/26/12

Method Blank Analysis Batch Quality Control

Analytical Method: 105,680/8270C-SIM(M)

Extraction Method: EPA 3540C

Analytical Date: 06/22/12 02:09

Extraction Date: 06/20/12 15:30

Analyst: JD

Parameter	Result	Qualifier	Units	RL	MDL
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab for sample(s): 01-02 Batch: WG543472-1					
Monochlorobiphenyls	ND		ng/cart	10.0	--
Dichlorobiphenyls	ND		ng/cart	10.0	--
Trichlorobiphenyls	ND		ng/cart	10.0	--
Tetrachlorobiphenyls	ND		ng/cart	10.0	--
Pentachlorobiphenyls	ND		ng/cart	10.0	--
Hexachlorobiphenyls	ND		ng/cart	10.0	--
Heptachlorobiphenyls	ND		ng/cart	10.0	--
Octachlorobiphenyls	ND		ng/cart	10.0	--
Nonachlorobiphenyls	ND		ng/cart	10.0	--
Decachlorobiphenyl	ND		ng/cart	10.0	--
Total Homologs	ND		ng/cart	10.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	96		50-125
Cl8-BZ#202-C13	87		50-125

Lab Control Sample Analysis

Batch Quality Control

Project Name: ST. ANTHONY'S

Project Number: 121.06071.001

Lab Number: L1210951

Report Date: 06/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-02 Batch: WG543472-2								
Cl1-BZ#1	112		-		40-140	-		30
CL1-BZ#3	116		-		40-140	-		30
Cl2-BZ#4/#10	126		-		40-140	-		30
Cl2-BZ#5/#8	107		-		40-140	-		30
Cl3-BZ#19	110		-		40-140	-		30
Cl3-BZ#18	100		-		40-140	-		30
Cl2-BZ#15	101		-		40-140	-		30
Cl4-BZ#54	109		-		40-140	-		30
Cl3-BZ#29	95		-		40-140	-		30
Cl4-BZ#50	115		-		40-140	-		30
Cl3-BZ#28/#31	101		-		40-140	-		30
Cl4-BZ#45	119		-		40-140	-		30
Cl4-BZ#52	102		-		40-140	-		30
Cl4-BZ#43/#49	110		-		40-140	-		30
Cl4-BZ#47/#48	104		-		40-140	-		30
Cl5-BZ#104	107		-		40-140	-		30
Cl4-BZ#44	102		-		40-140	-		30
Cl3-BZ#37	88		-		40-140	-		30
Cl4-BZ#74	97		-		40-140	-		30
Cl6-BZ#155	109		-		40-140	-		30
Cl4-BZ#70	98		-		40-140	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ST. ANTHONY'S

Project Number: 121.06071.001

Lab Number: L1210951

Report Date: 06/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-02 Batch: WG543472-2								
Cl4-BZ#66	98		-		40-140	-		30
Cl5-BZ#95	96		-		40-140	-		30
Cl4-BZ#56/#60	91		-		40-140	-		30
Cl5-BZ#101/#84	110		-		40-140	-		30
Cl5-BZ#99	102		-		40-140	-		30
Cl6-BZ#154	96		-		40-140	-		30
Cl5-BZ#110	91		-		40-140	-		30
Cl4-BZ#81	98		-		40-140	-		30
Cl5-BZ#87	105		-		40-140	-		30
Cl6-BZ#151	94		-		40-140	-		30
Cl4-BZ#77	96		-		40-140	-		30
Cl5-BZ#123	91		-		40-140	-		30
Cl6-BZ#149	98		-		40-140	-		30
Cl7-BZ#188	90		-		40-140	-		30
Cl5-BZ#118	94		-		40-140	-		30
Cl6-BZ#146	96		-		40-140	-		30
Cl5-BZ#114	94		-		40-140	-		30
Cl6-BZ#153	90		-		40-140	-		30
Cl6-BZ#138/#163	79		-		40-140	-		30
Cl6-BZ#158	94		-		40-140	-		30
Cl5-BZ#105	85		-		40-140	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ST. ANTHONY'S

Project Number: 121.06071.001

Lab Number: L1210951

Report Date: 06/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-02 Batch: WG543472-2								
Cl7-BZ#182/#187	92		-		40-140	-		30
Cl7-BZ#183	97		-		40-140	-		30
Cl6-BZ#167/#128	92		-		40-140	-		30
Cl5-BZ#126	68		-		40-140	-		30
Cl7-BZ#174	98		-		40-140	-		30
Cl8-BZ#202	99		-		40-140	-		30
Cl7-BZ#177	94		-		40-140	-		30
Cl6-BZ#156	87		-		40-140	-		30
Cl6-BZ#157	86		-		40-140	-		30
Cl7-BZ#180	96		-		40-140	-		30
Cl7-BZ#170/#190	77		-		40-140	-		30
Cl8-BZ#201	97		-		40-140	-		30
Cl6-BZ#169	99		-		40-140	-		30
Cl9-BZ#208	98		-		40-140	-		30
Cl7-BZ#189	95		-		40-140	-		30
Cl8-BZ#195	91		-		40-140	-		30
Cl8-BZ#194	91		-		40-140	-		30
Cl8-BZ#205	93		-		40-140	-		30
Cl9-BZ#206	88		-		40-140	-		30
Cl10-BZ#209	83		-		40-140	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ST. ANTHONY'S

Project Number: 121.06071.001

Lab Number: L1210951

Report Date: 06/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-02 Batch: WG543472-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Cl3-BZ#19-C13	92				50-125
Cl8-BZ#202-C13	86				50-125

Project Name: ST. ANTHONY'S**Project Number:** 121.06071.001**Lab Number:** L1210951**Report Date:** 06/26/12**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1210951-01A	PUF Air Cartridge - High or Low	A	N/A	20.0	Y	Absent	A2-PCBHOMS-8270SIML(7)
L1210951-02A	PUF Air Cartridge - High or Low	A	N/A	20.0	Y	Absent	A2-PCBHOMS-8270SIML(7)

*Values in parentheses indicate holding time in days

Project Name: ST. ANTHONY'S
Project Number: 121.06071.001

Lab Number: L1210951
Report Date: 06/26/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report



Project Name: ST. ANTHONY'S
Project Number: 121.06071.001

Lab Number: L1210951
Report Date: 06/26/12

Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: ST. ANTHONY'S
Project Number: 121.06071.001

Lab Number: L1210951
Report Date: 06/26/12

REFERENCES

- 105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680. EPA 01A0005295, November 1985.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised May 10, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 3060A, 6020A, 7470A, 7471B, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040B, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 245.7, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 **NELAP Accredited**

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474. Organic Parameters: EPA 3050B, 3540C, 3630C, 8270C, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ.**

Refer to NJ-DEP Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460194. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 3020A, 6020A, 245.7, 9040B, SM4500H-B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A, 7470A, 7471B, 9040B, 9045C, 3050B, 3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.)

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

